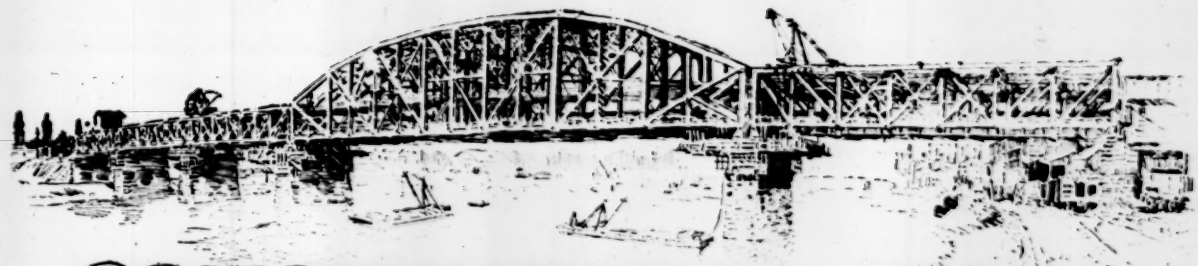

CONSTRUCTION NEWS

UPS AND DOWNS OF THE MARKET

STEEL RAILS—Quotations on standard rails remain the same as for the last few months. The upper quotation on 25- to 45 lb. sections is $3.75 per 100 lb., while the general maximum is $3.70.

PIPE—The Pittsburgh basing card on wrought pipe has not been superseded. Price of cast-iron pipe is practically the same as last month. Very few changes in sewer pipe.

WOOD BLOCKS—Slight decrease in New York owing to cheaper lumber.

CONCRETING MATERIALS—Sand and gravel maintain the same level in New York as per the last half year or so. Slight advance in St. Louis and decreases in Minneapolis and Detroit. Very few changes in price of crushed stone. No change in cement in New York, but there has been a drop of 74c. in Jersey City. Drops are also noticed in Minneapolis and Atlanta, with increases in St. Louis and Detroit. There are indications that cement will be lower before it is higher. Dallas reports a $1 decrease on crushed stone, which is now plentiful; sand is up 50c.

REINFORCING MATERIALS—Few changes noted. On reinforcing bars the maximum mill price has been reduced 25c. In Dallas a 12 per cent advance has just occurred, and new prices will be published next month.

COMMON BRICK—New York price still remains $22.70, but signs point to an increase. Decreases in Detroit and Atlanta. Up $3 in Dallas.

HOLLOW TILE—No changes in New York or Perth Amboy. Quotations resumed in St. Louis. Decline in Baltimore and Chicago.

STRUCTURAL MATERIAL—Situation quiet as winter approaches. Independent companies quote structural beams at $2.10, although this is not a rigid price. Price of rivets down in Chicago warehouse. The plate market is easier, with only a $1 difference in ton prices between independent and Steel Corporation quotations. New York warehouses announced a reduction on Oct. 27; structural shapes are now quoted at $4.30 as against the former price $4.58; floor plates are now $6.75, tank plates $4.50. Structural rivets are now $8.50 in Dallas, against former price of $7.50.

ROOFING MATERIALS—Although we note no price changes, it is predicted that tar felt will be reduced $10 per ton shortly.

STEEL SHEETS—The only change is in New York, where a decrease of 23c. per 100 lb. is noted on the minimum price of blue annealed sheets.

LUMBER—Rough Douglass fir has declined $3.50 in San Francisco. There has been a price adjustment in St. Louis and a general decrease on pine in Chicago, a slight increase in Baltimore, and decreases in Detroit and Minneapolis. Lumber has declined 25 per cent in New Orleans.

LABOR—Only wage changes noted are in Atlanta. Labor is generally more plentiful.

Price advances are indicated by **heavy type**; declines by *italics*

PIG IRON—Quotations compiled by The Matthew Addy Co.:

	Current	One Year Ago
CINCINNATI		
No. 2 Southern	$46.50	$36.60
Northern Basic	51.30	34.00
Southern Ohio No. 2	48.50	36.55
NEW YORK, tidewater delivery		
2X Virginia (silicon 2.25 to 2.75)	57.12	39.40
Southern No. 2 (silicon 2.25 to 2.75)	52.10	41.40
BIRMINGHAM		
No. 2 Foundry	42.00@45.00	33.00
PHILADELPHIA		
Eastern Pa	51.25*	38.10*
Virginia No. 2	50.00†	39.10†
Basic	51.00*	34.60*
Grey Forge	49.00*	34.60*
CHICAGO		
No. 2 Foundry Local	46.00	36.25
No. 2 Foundry Southern	50.00	38.00
PITTSBURGH, including freight charge from the Valley		
No. 2 Foundry Valley	49.56	....
Basic	48.96	34.40
Bessemer	51.96	35.40

* F.o.b. furnace. † Delivered.

RAILWAY SUPPLIES

STEEL RAILS—The following quotations are per ton f. o. b. Pittsburgh and Chicago for carload or larger lots. For less than carload lots 5c. per 100 lb. is charged extra:

	Pittsburgh		Chicago	
	Current	One Year Ago	Current	One Year Ago
Standard bessemer rails	$55.00	$45.00	$45.00@$55.00	$45.00
Standard openhearth rails	57.00	47.00	47.00@57.00	47.00
Light rails, 8 to 10 lb.	2.88 @ 4.00*	2.585*	2.45 @ 3.50*	2.585
Light rails, 12 to 14 lb.	2.84 @ 3.84*	2.54*	2.41 @ 3.34*	2.54
Light rails, 25 to 45 lb.	2.75 @ 3.75*	2.45*	2.32 @ 3.25*	2.45

* Per 100 lb.

RAILWAY TIES—For fair-sized orders, the following prices per tie hold:

		7 In. x 9 In. by 8 Ft. 6 In.	6 In. x 8 In. by 8½ Ft.
Chicago	Plain	$2.00	$2.25
Chicago	Creosoted	2.25	2.50
San Francisco	Douglas Fir—Green	1.35	.96
San Francisco	Douglas Fir—Creosoted	2.70	1.92

Prices per tie at mills in St. Louis district:

Untreated A Grade White Oak 6x8x8		Untreated A Grade Red Oak 6x8x8	
No. 1	$0.80	No. 1	$0.60
No. 2	.90	No. 2	.70
No. 3	1.00	No. 3	.80
No. 4	1.25		
7x9x8 white oak			1.05
7x9x8 red oak (No. 4)	$0.80	No. 5	.87

Note:—Prices delivered in St. Louis, white oak 6 x 8 x 8, best grade, $2; 7 x 9 x 9, $2.25.

TRACK SUPPLIES—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	— Pittsburgh — Current	One Year Ago	Chicago	St. Louis	San Francisco
Standard spikes, $\frac{5}{16}$-in. and larger	$4.40@4.25	$3.35	$3.40@4.00	$5.47½	$7.75
Track bolts	6.00@6.50	4.35	4.60@5.00	Premium	8.75
Standard section angle bars	3.00@4.00	3.00	2.75@3.40	Premium	5.45

PIPE

WROUGHT PIPE—The following discounts are to jobbers for carload lots on the Pittsburgh basing card:

BUTT WELD

Steel Inches	Black	Galv.	Iron Inches	Black	Galv.
⅛ to 3	54 to 57½	41½ to 44	⅜	15½ to 25½	+1½ to 11½
			½	19½ to 29½	1½ to 11½
			¾ to 1¼	24½ to 34½	8 to 18½

LAP WELD

2	47 to 50½	34½ to 38	2	20½ to 28½	6½ to 14½
2½ to 6	50 to 53½	37½ to 41	2½ to 6	22½ to 30½	9½ to 17½
7 to 12	47 to 50½	33½ to 37	7 to 12	19½ to 27½	6½ to 14½
13 and 14	37½ to 41				
15	35 to 38½				

BUTT WELD, EXTRA STRONG, PLAIN ENDS

⅛ to 1¼	52 to 55½	39½ to 43	⅜ to 1	24½ to 34½	9½ to 19½
2 to 3	53 to 56½	40½ to 44			

LAP WELD, EXTRA STRONG, PLAIN ENDS

2	45 to 48½	33½ to 37	2	21½ to 29½	8½ to 16½
2½ to 4	48 to 51½	36½ to 40	2½ to 4	23½ to 31½	11½ to 19½
4½ to 6	47 to 50½	35½ to 39	4½ to 6	22½ to 30½	10½ to 18½
7 to 8	43 to 46½	29½ to 33	7 to 8	14½ to 22½	2½ to 10½
9 to 12	38 to 41½	24½ to 28	9 to 12	9½ to 17½	5½ to +2½

STEEL—From warehouses at the places named the following discounts hold for steel pipe:

	Black — New York	Chicago	St. Louis
⅛ to 3 in. butt welded	40%	54@40%	37%
2½ to 6 in. lap welded	35%	50@40%	33⅓%
	Galvanized — New York	**Chicago**	**St. Louis**
⅛ to 3 in. butt welded	24%	40½@30%	22%
2½ to 6 in. lap welded	20%	37½%@27½	19%

Malleable fittings, Class B and C, from New York stock sell at +32% list prices. Cast iron, standard sizes, net.

CAST-IRON PIPE—The following are prices per net ton for carload lots:

	—New York— Current	One Month Ago	One Year Ago	Chicago	St. Louis	San Francisco
4 in.	$87.22	$86.20	$57.30	$88.10	$84.70	$110.70
6 in. and over	77.22	81.20	54.30	83.10	80.70	105.70

Gas pipe and Class "A," $4 per ton extra; 16-ft. lengths, No. 1.

CLAY DRAIN TILE—The following prices are per 1000 lin.ft.:

Size, In.	— New York — Current	One Year Ago	St. Louis	Chicago	San Francisco	Dallas
3	$62.00	$35.00	$60.00	$60.00	.....	$60.00
4	77.50	51.00	70.00	80.00	$90.00	62.00
5	110.00	65.00	.....	100.00	115.00	84.00
6	140.00	90.00	125.00	120.00	150.00	110.00
8	228.00	130.00	195.00	180.00	250.00	181.00

SEWER PIPE—The following prices are in cents per foot for carload lots:

Size, In.	— New York — Current Delivered	One Year Ago Delivered	St. Louis	Chicago	San Francisco	Dallas
3	$0.24	$0.102	.....	$0.15	$0.14	.....
4	.24	.102	.....	.15	.175	$0.25
5	.36	.153	.....	.225	.21	.....
6	.36	.153	$0.21	.225	.245	.35
8	.56	.238	.30	.35	.35	.50
10	.84	.357	.42	.525	.49	.....
12	1.08	.459	.54	.625	.63	.90
15	1.61	.612	.806	.90	1.05	.....
18	2.30	.85	1.054	1.25	1.47	.....
20	2.76	1.02	1.426	1.50	1.96	.....
22	3.68	1.36	.....	2.00	.....	.....
24	4.14	1.53	1.86	2.25	2.52	.....
27	.....	2.45	3.00	3.50	3.50	.....
30	.....	2.664	3.65	4.00	4.20	.....
33	.....	3.51	4.60	4.75	.....	.....
36	.....	3.9975	4.90	5.50	.....	.....
	3	5	8	12	24	36
Boston	$1.65	$0.2475	$0.4225	$0.7425	$2.475	$6.875
Minneapolis			47	85	2.75	6.16
Denver	Quotations not available					
Seattle			40	80	2.88	
Kansas City	No prices obtainable					
Los Angeles	.0975*	.1525*	27	48	.60*	
New Orleans	10 per cent off				15 per cent off	
Cincinnati	53 per cent off					38%
Atlanta	.16*	.24*	37½	64	2.44	.....
Montreal			35 per cent. off			
Detroit			51 per cent. off		49 per cent. off	
Baltimore delivered	.....		36 per cent. off		30%	28%

* 4-in., 6-in., 30-in. respectively.

ROAD AND PAVING MATERIALS

ROAD OILS—Following are prices per gallon in tank cars 8000 gal. min. f.o.b. place named:

	Current	One Year Ago
New York, 45% asphalt (at terminal)	$0.13	$0.04½
New York, 65% asphalt (" ")	.12	.06
New York, binder (" ")	.13	.06½
New York, flux (" ")	.13	.04¾
St. Louis, 40% asphalt	.12	.04½
Chicago, 40-50% asphalt	.08½	.05
Chicago, 60-70% asphalt	.08½	.05½
Dallas, 40-50% asphalt	.10	.07
Dallas, 60-70% asphalt	.13	.08
Dallas, 75-90% asphalt	.15	.10
San Francisco, binder	.13	.....

ASPHALTUM—Price per ton in packages (350-lb. bbls. or 425-lb. drums), and in bulk in carload lots:

	Package	Bulk
New York (Bayonne, N. J.)	$36.50	$29.00
Boston	42.42	.....
Chicago	37.50	30.00
San Francisco	19.00	13.00
Dallas	50.00	45.00
Seattle	27.00	.....
Denver	.....	50@65
Minneapolis	40.00	34.00
Kansas City	40.00	32.00
St. Louis	40@45	.....
Baltimore	42.25	.....
Los Angeles	21.15	.....
Montreal	.....	37.00
Atlanta	56.50	.....
Detroit	49.00	42.25
Maurer, N. J.	35.00	32.00
	42.00	41.00

PAVING STONE—

New York	5-in. granite	No quotations	
Chicago	About 4x8x4 dressed	$3.40	sq.yd.
	About 4x8x4 common	3.05	sq.yd.
San Francisco	Basalt block 4x7x8	65.00	per M
Kansas City	Granite	3.65	sq.yd.
Boston	5-in. granite	110.00	per M
Atlanta	Granite	2.00	sq.yd.
Detroit	Granite, 26½ blocks per sq. yd.	4.50	sq.yd.
Baltimore	Granite	2.50	sq.yd.
Montreal	Granite	5.90	sq.yd.
New Orleans	Granite	3.00	sq.yd.
Cincinnati	Granite	3.25	sq.yd.

FLAGGING—

New York	Bronx	$0.24	sq.ft.
	Manhattan	.25	sq.ft.
	Queens, 5 ft.	.26	sq.ft.
	6x20-in. cross-walk	.95	lin.ft.
Chicago	18 in. wide	.70	lin.ft.

CURBING—Bluestone per lineal foot, in New York, costs 70c. for 5x16 in., 80c. for 5x18 in.

WOOD BLOCK PAVING—	Size of Block	Treatment	Per Sq.Yd.
New York	3½	16	$3.02
New York	4	16	3.06
Boston	3	16	3.00
Chicago	4	16	3.75@4.00
Chicago	3½	16	3.25@3.50
St. Louis	3½	16	3.10
St. Louis	4	16	3.55
Seattle	4	16	Off market
Kansas City	4	16	3.00
Minneapolis	3¾	16	3.42
Atlanta	3½	16	2.30
New Orleans	3	16	2.99
New Orleans	3½	16	3.42
New Orleans	4	16	3.85
Dallas	4	18	4.00
Baltimore	3½	16	3.80
Montreal	4	16	4.60
Detroit	3½	16	3.40

CONSTRUCTION MATERIALS

SAND AND GRAVEL—Price for cargo or carload lots is as follows, per cu.yd.:

	Gravel — 1½ In. — Current	One Yr. Ago	¾ In. — Current	One Yr. Ago	Sand — Current	One Yr. Ago
New York	$3.00	$2.00	$3.00	$2.00	$1.50	$1.25
Denver	2.00	1.60	1.80	1.60	1.60	1.25
Chicago	2.75	2.00	2.75	2.00	2.75	2.00
Kansas City	3.25	2.50	3.75	3.00	1.25†	1.00
St. Louis	1.65	1.78	1.70	1.82	1.70*	1.68
Seattle, per ton	1.25	1.20	1.25	1.25	1.25	1.05
Dallas	2.50	3.50	2.50	3.50	2.50	2.25
Minneapolis	2.00	1.25	.....	1.35	1.25	.60
Cincinnati	.....	.....	1.50	.....	1.45	1.35‡
San Francisco	1.50	1.15	1.50	1.15	1.50	1.00
Boston	3.50	1.60‡	3.00	1.65‡	2.75	.....
New Orleans	3.60	2.40	.....	2.40	1.85	1.20
Los Angeles	1.25	1.02	1.25	1.02	1.15	.70
Atlanta, per ton	3.12	2.25	.....	.....	1.62	1.15
Detroit	1.85*	2.50	1.85*	1.90	1.70*	2.50
Baltimore	1.40‡	1.54	1.60‡	1.60	.70	.65
Montreal, per ton	1.50‡	1.20	.....	.....	1.25‡	1.10

* Fine white sand, Pacific and Ottawa, per ton $6.
† Kaw River sand is $1.75 per yd. ‡ per ton.

CRUSHED STONE—Price for cargo or carload lots is as follows, per cu.yd.:

	1½ In. Current	1½ In. One Year Ago	¾ In. Current	¾ In. One Year Ago
New York	$1.90@2.00	$1.65@1.75	$2.15	$1.75@1.85
Chicago	2.75	2.00	2.75	2.00
St. Louis	2.00	1.50	2.00	1.50
Dallas	*2.50*	2.00	*2.50*	2.80
San Francisco	1.50	1.50	1.50	1.50
Boston	3.00*(del)	2.75	3.00 (del)	2.75
Minneapolis	2.25†	1.15	2.50†	1.25
Denver	....	....	....	1.60
Kansas City	2.35	2.25	2.35	2.35
Seattle (Del.)	3.50	2.00	3.50	2.00
Atlanta	3.25	2.55	3.50	2.65
Cincinnati	....	....	1.65	....
Los Angeles	1.60*	1.20	1.70*	1.12
Detroit	2.00	1.75	2.00*	1.75
Baltimore	1.80*	1.25	2.20*	1.50
Montreal	*2.30**	1.90	*2.55**	2.15

* Per ton. † Limestone; traprock, $1.60 and $1.80 per ton for 1½ and ¾-in.

CRUSHED SLAG—Price of crushed slag per net ton in carload lots:

	1½-In.	¾-In.	Roofing	Sand
Lebanon or Bethlehem, Pa.	$1.00	$1.00	$2.50	$0.90
Easton, Pa.	1.20	1.20	3.00	1.10
Buffalo, N. Y.	1.25	1.00	2.00	1.00
East Canaan, Conn.	1.25	1.35	3.50	1.10
Birmingham, Ala.	1.25	1.25	2.05	1.00
Toledo, Ohio	1.50	1.50	.....	....

LIME—Warehouse prices:

	Hydrated per Ton Finished	Hydrated per Ton Common	Lump per 200-Lb Barrel Finished	Lump per 200-Lb Barrel Common
New York	$21.00	$20.00	$5.80*-atplant-$3.40*	
Kansas City	27.20	26.20	2.50	2.40
Chicago	....	....	....	1.65
St. Louis	27.00	21.00	....	2.75
Boston	27.50	25.25	3.70†	3.40†
Dallas	....	25.00	.....	2.50†
Cincinnati	17.20	16.20	.....	13.20‡
San Francisco	25.40	22.00	.....	2.25
Minneapolis	29.50	23.00	2.00	1.85
Denver	32.00	.....	1.05 (bu.)	....
Detroit	23.00	19.00	2.00†	1.80†
Seattle	30.00	....	2.85†	....
Los Angeles	2.75†	2.20†	2.75†	2.00†
Baltimore	23.50 (East)	.....	....	13.00‡
Montreal	25.00	25.00	15.00‡	15.00‡
Atlanta	....	....	3.00†	2.75†
New Orleans	24.50	24.50	3.00	2.85

* 300-lb. barrels. †Per 180-lb. barrel. ‡ Per ton.

NOTE—Refund of 10c. per barrel with 25c per ton off on hydrated.

NATURAL CEMENT—Price to dealers for 500 bbl. or over, f. o. b., exclusive of bags:

	Current	One Year Ago
Minneapolis (Rosendale)	$3.00	$1.45
Kansas City (Ft. Scott)	1.60	1.50
New Orleans	3.36	2.52
Atlanta (Magnolia)	1.90	1.85
Cincinnati (Louisville)	2.85	1.35
Boston (Rosedale)	2.35	

PORTLAND CEMENT—Current prices are for barrels in carload lots, *without* bags, to contractors:

	Current Without Bags	One Month Ago Without Bags	One Year Ago Without Bags
New York (del.)	$4.10	$4.10	$2.80
Jersey City (del.)	*3.55*	4.39	2.47
Boston	3.32	3.32	2.42
Chicago	2.35	2.35	2.00
Pittsburgh	2.42	2.42	2.05
Cleveland	2.73	2.73	2.32
Detroit	2.71	2.71	2.08
Indianapolis	2.61	2.57	2.27
Toledo	2.71	2.71	2.12
Milwaukee	2.59	2.59	2.11
Duluth	2.35	2.35	2.10
Peoria	2.63	2.63	2.12
Cedar Rapids	2.71	2.71	2.18
Davenport	2.67	2.67	2.14
St. Louis	3.45	3.00	2.20
San Francisco	3.09	3.09	2.43
New Orleans	4.60	5.00	2.36
Minneapolis	*3.30*	3.42	2.22
Denver	3.25	3.25	3.12
Kansas City	2.76	2.76	2.26
Seattle	3.12	3.12	2.68
Dallas	3.85	2.92	2.03
Atlanta	*3.75*	4.90	2.50
Cincinnati	2.85	2.85	2.35
Los Angeles	3.10	3.10	2.78
Baltimore (del)	4.59	4.59	2.90
Montreal (including bags)	3.00	3.00	2.50
Detroit	3.71	3.50	2.23

NOTE—Bag charge is generally 25c. each.

TRIANGLE MESH—Price per 100 sq.ft. in carload lots:

PLAIN 4-INCH by 4-INCH MESH

Style Number	Sectional Area Square Inches per Ft.	Width	Pittsburgh	New York*	Chicago†	St. Louis	Dallas	San Francisco
032	0.032		$1.24	$1.55	$0.98	$1.03	$1.13	$1.32
049	0.049		1.56	1.95	1.26	1.32	1.43	1.67
068	0.068		1.88	2.35	1.53	1.61	1.79	2.06
093	0.093		2.38	2.98	1.97	2.07	2.41	2.65
126	0.126		2.93	3.67	2.43	2.57	2.92	3.28
153	0.153		3.47	4.34	2.90	3.06	3.48	3.93
180	0.180		3.97	4.97	3.33	3.51	3.99	.....
245	0.245		5.21	6.52	4.40	4.64	5.27	.....
287	0.287		6.00	7.50	5.08	5.36	6.10	6.86
336	0.336		6.93	8.67	5.89	6.21	7.06	.....
395	0.395		8.02	10.03	6.83	7.20	8.19	.....
PAVING								
036P	0.036		$0.98	$1.23	$0.76	$0.79	$0.80	.....
053P	0.053		1.34	1.68	1.06	1.12	1.12	.....
072P	0.072		1.66	2.08	1.34	1.41	1.46	.....
097P	0.097		2.11	1.76	1.73	1.82	1.88	.....
049R	0.049		1.34	2.08	1.06	1.12	1.12	.....
067R	0.067		1.76	2.64	1.34	1.49	1.46	.....
089R	0.089		2.11	....	1.73	1.82	1.88	.....

Made in 16-, 20-, 24-, 28-, 32-, 36-, 40-, 44-, 48-, 52- and 56-in. width in rolls 150-, 200- and 300-ft. lengths. Galvanized is about 10% higher.

Note—Triangle mesh again available in New York.

EXPANDED METAL LATH—Prices in carload lots per 100 yd. for painted are as follows:

Gage	Weight	New York‡ Current Carloads	New York‡ Less Carloads	Chicago	St. Louis	San Francisco	Dallas
27	233	$32.10	$32.20*	$33.60†	$35.00	$37.25	$32.75
26	250	33.45	33.65*	35.20†	36.00	.....	34.50
25	300	34.90	35.00*	36.90†	.....	40.50	36.75
24	340	36.50	36.65*	40.00†	39.00	46.25	39.25
22	450	39.60	39.80*	45.10†	.....	.....	43.30

* Delivered on job.

†Galvanized is $8 per 100 yd., additional

***Note—Metal lath again available in New York.**

BARS, CONCRETE REINFORCING—Following quotations are per 100 lb.:

ROLLED FROM BILLETS

In.	Mill Pittsburgh	New York Current Warehouse, Uncut	Chicago	Dallas	St. Louis	San Francisco
¼ and larger	$2.35@$3.50	$3.63@$5.00	$3.48@$3.87	$3.87	$4.75	$5.30
⅜	2.40@3.50	3.68@5.00	3.53@3.92	3.92	4.80	5.35
½	2.45@3.50	3.73@5.00	3.58@3.97	3.97	4.95	5.40
⅝	2.60@3.50	3.88@5.00	3.63@4.12	4.12	5.00	5.55
¾	2.85@3.50	4.13@5.00	4.18@4.57	4.57	5.05	5.80

Twisted bars cut to length take extra of 27½c. per 100 lb.

ROLLED FROM RAILS

	Chicago	St. Louis	Dallas		Chicago	St. Louis	Dallas
¼ in. and larger	$4.00	$4.00	$4.25	⅜	$4.25	$4.25	.....
⅜	4.05	4.05	4.30	½			
½	4.10	4.10	.....				

BRICK—To contractors price per 1000 in cargo or carload lots is as follows:

	Common Current	Common One Month Ago	Common One Year Ago	Paving Block 3-inch	Paving Block 4-inch
New York (del)	$22.70	$22.70	.....	$57.20*	$63.30*
New Orleans	25.50	25.50	$19.00	.....	.....
Chicago	15.00	15.00	12.00	45.00	.....
St. Louis, salmon	17.00†	17.00	12.00	.....	.....
Denver	15.00	15.00	14.00	.....	.....
Dallas	25.00	22.07	18.57	.....	.....
San Francisco	18.00	18.00	12.50	.....	44.38
Los Angeles	13.50	13.50	12.50	.....	.....
Boston	30.00	30.00	18.00	59.25*	66.25*
Minneapolis (del.)	24@26	24.00	14.50	.....	.....
Kansas City	22.00	22.00	16.00	.....	.....
Seattle	19.00	17.00	15.00	48.00	53.50
Cincinnati	24.00	24.00	17.00	.....	.....
Montreal (del.)	20.00	20.00	15.00	.....	.....
Detroit	*20.00–22.00*	22.00	17.25	40.00	48.00
Baltimore (del.)	20.00–25.00	22.50	18.00	.....	44.00‡
Atlanta	*20.00*	24.00	.....	.....	.....

*For paving blocks 3½x8½x3 and 3½x8½x4 respectively. †Hard brick $20.50 in St. Louis. ‡Vitrified, f. o. b. plant, Baltimore.

HOLLOW TILE—Price per block in carload lots for hollow building tile:

	New York Current on Trucks	New York One Year Ago	Chicago	St. Louis	San Francisco	Factory Perth Amboy N. J.
4x12x12	$0.2444*	$0.11475	$0.1347	$0.145	$.145	
6x12x12	.3259*	.153	.2021	.21		
8x12x12	.4345*	.204	.2425	.245	.29	.4358
10x12x12	.....	.....	.3032	.....	.....	.5447
12x12x12	.....	.....	.3638	.36	.....	.6537

*Partition title. Less 5% for cash, 15 days.

	4x12x12	8x12x12	12x12x12
Boston	$0.195	$0.372	$0.496
Minneapolis	.1192	.2086	.3278
Cincinnati	.125	.2186	.3286
Kansas City	No prices obtainable		
Denver	Quotations withdrawn		
Seattle	.13	.175	.30
Los Angeles	.10	.175	.....
New Orleans	.30	.40	.60
Detroit	.15	.27	.39
Montreal	.22	.30	.36
Baltimore	*.2225*	*.3050*	*.5280*
Atlanta	.142	.237	.....

STRUCTURAL MATERIAL—Following are base prices f.o.b. mill, Pittsburgh, together with quotations per 100 lb. from warehouses at places named:

	Mill Pittsburgh	New York Current	New York 1 Yr. Ago	St. Louis	Chicago	San Francisco
Beams, 3 to 15 in.	$2.45@3.10	$4.30	$3.47	$4.04	$3.97	$6.00
Channels, 3 to 15 in.	2.45@3.10	4.30	3.47	4.04	3.97	6.00
Angles, 3 to 6 in., ¼ in. thick	2.45@3.10	4.30	3.47	4.04	3.97	6.00
Tees, 3 in. and larger	2.45@3.75	4.35	3.52	4.09	4.02	6.00
Plates	2.65@4.00	4.50	3.67	4.24	4.17	6.30

RIVETS—The following quotations are per 100 lb.:

STRUCTURAL

	Mill Pittsburgh	New York Current	New York One Yr. Ago	Warehouse Chicago	Warehouse St. Louis	Warehouse San Francisco	Warehouse Dallas
½ in. and larger	$4.50	$6.11		$5.00	$5.69	$7.05	$7.50

CONE HEAD BOILER

½ in. and larger	4.60	7.10	$4.82	5.10	5.79	7.15	7.50
⅝ and ¾	4.75	7.25	4.97	5.25	5.94	7.40	7.50
⅞ and 1	5.00	7.50	5.32	5.60	6.19	7.65	7.75

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take an extra of 25c.

NAILS—The following quotations are per keg from warehouse:

	Mill Pittsburgh	New York	Chicago	San Francisco	Dallas	Montreal
Wire	$4.25	$8.50	$4.45	$6.45	$6.90	$4.95
Cut	....	10.00	8.00@11.00	8.95	6.40	5.00

PREPARED ROOFINGS—Standard grade rubbered surface, complete with nails and cement, costs per square as follows at manufacturing points:

	New York 1-Ply c.l.	New York 2-Ply l.c.l.	New York 3-Ply c.l.	Philadelphia 1-Ply c.l.	Philadelphia 2-Ply l.c.l.	Philadelphia 3-Ply c.l.
No. 1 grade	$2.50	$3.00	$3.55	$2.40	$2.90	$3.45
No. 2 grade	2.25	2.70	3.20	2.15	2.60	3.10

Slate-surfaced roofing (red and green) in rolls of 108 sq.ft. costs **$4.50** per roll in carload lots and **$4.75** for smaller quantities.

Shingles, red and green slate finish, cost **$10.00** per square in carloads; **$10.25** in smaller quantities, in Philadelphia.

ROOFING MATERIALS—Prices per ton f.o.b. New York and Chicago:

Tar felt (14 lb. per square of 100 sq.ft.) per roll	$3.55
Tar pitch (in 400-lb. bbl.) per 100 lb.	2.25
Asphalt pitch (in barrels) per ton	56.50
Asphalt felt (light) per ton	132.00
Asphalt felt (heavy) per ton	138.00

SHEETS—Quotations are in cents per pound in various cities from warehouse also the base quotations from mill:

Blue Annealed	Large Mill Lots Pittsburgh	St. Louis	Chicago	San Francisco	New York Current	New York One Yr. Ago
No. 10	$3.55@$7.50	$7.09	$7.13	$8.65	$7.00@$8.00	$4.82
No. 12	3.60@7.55	7.09	7.18	8.70	7.05@8.05	4.87
No. 14	3.65@7.60	7.09	7.23	8.75	7.10@8.10	4.92
No. 16	3.75@7.70	7.09	7.28	8.85	7.20@8.20	5.02
Black						
*Nos. 18 and 20	4.15@8.30	8.10	7.90	10.60	8.41@9.80	5.80
*Nos. 22 and 24	4.20@8.35	8.10	7.95	10.65	8.46@9.85	5.85
*No. 26	4.25@8.40	8.10	8.00	10.70	8.51@9.90	5.90
*No. 28	4.35@8.50	8.10	8.10	10.80	8.61@10.00	6.00
Galvanized						
No. 10	4.70@8.50	9.60	8.60	.....	8.91@11.50	6.25
No. 12	4.80@8.60	9.60	8.70	11.35	9.01@11.50	6.30
No. 14	4.80@8.60	9.60	8.70	11.35	9.01@11.50	6.35
Nos. 18 and 20	5.10@8.90	9.60	9.00	11.65	9.26@11.90	6.65
Nos. 22 and 24	5.25@9.05	9.60	9.15	11.80	9.41@12.05	6.80
*No. 26	5.40@9.20	9.60	9.30	11.95	9.56@12.20	6.95
*No. 28	5.70@9.50	9.60	9.60	12.25	9.86@12.50	7.25

*For painted corrugated sheets add 30c. per 1000 lb. for 5 to 28 gage; 25c. for 19 to 24 gages; for galvanized corrugated sheets add 15c., all gages.

LINSEED OIL—These prices are per gallon:

	New York Current	New York One Year Ago	Chicago Current	Chicago One Year Ago
Raw in barrel (5 bbl.)	$1.15	$1.75	$1.25	$1.92
5-gal. cans	1.30	1.90	1.50	2.07

WHITE AND RED LEAD—Base price per pound:

	Red Current Dry	Red Current In Oil	Red 1 Year Ago Dry	Red 1 Year Ago In Oil	White Current Dry and In Oil
100-lb. keg	15.50	17.00	13.00	14.50	15.50
25 and 50-lb. kegs	15.75	17.25	13.25	14.75	15.75
12½-lb. keg	16.00	17.50	13.50	15.00	16.00
5-lb. cans	18.50	20.00	15.00	16.50	18.50
1-lb. cans	20.50	22.00	16.00	17.50	20.50

500 lb. lots less 10% discount; 2000 lb. lots less 10-2½% discount.

LUMBER

San Francisco—Prices of rough Douglas fir No. 1 common, in more than carload lots.

Lumber Prices in Yards at San Francisco

	6-8-12 and 14 Ft.	10-16-18 and 20 Ft.	22 and 24 Ft.	25 to 32 Ft.
3x3 and 4	$33.00	$33.50	$34.50	$36.50
3x6 and 8	34.00	34.50	35.50	37.50
4x4-6 and 8	34.50	35.50	36.50	38.50
3x10 and 12	34.50	35.50	36.50	38.50
3x14	35.00	36.00	37.00	39.00
4x10 and 12	34.50	35.50	36.50	38.50
4x14	35.50	36.50	37.50	39.50

	24 Ft. and Under	25 to 32 Ft.	33 to 40 Ft.
6x10	$34.00	$36.00	$37.00
6x14	35.50	37.50	38.00
8x10	34.00	36.00	37.00
8x14	35.50	37.50	38.00

New York, Chicago and St. Louis

	Southern Pine New York* 20 Ft. and Under	Southern Pine New York* 22-24 Ft. and Under	Southern Pine Chicago 20 Ft. and Under	Southern Pine Chicago 22-24 Ft. and Under	Yellow Pine St. Louis 20 Ft. and Under	Yellow Pine St. Louis 22-24 Ft.
3x 4 to 8x8	$55.00	$56.00	$60.00	$61.00	46.50@56.75	48.25@58.00
3x10 to 10x10	60.00	61.00	63.00	64.00	48.75@60.75	50.00@62.00
3x12 to 12x12	66.00	67.00	65.00	66.00	53.25@65.25	54.50@66.50
3x14 to 14x14	71.00	72.00	68.00	69.00	62.00@73.75	63.00@75.00
3x16 to 16x16	78.00	79.00	75.00	76.00	68.00@80.00	69.00@81.00
3x18 to 18x18	90.00	91.00	80.00	81.00	.....	.....
4x20 to 20x20	95.00	96.00	85.00	86.00	.....	.....

*Prices from Lumbermen's Bureau.

Over 24 ft.—Add $1 for each additional 2 ft. in length up to 40 ft for sizes 12 x 12 and under, for sizes over 12 x 12 add $2 for merchantable add $2 to sizes 10 x 10 and under. For prime add $2 to the price of merchantable for all sizes.

Other Cities

	8 x 8-In. x 20-Ft. and Under P.	8 x 8-In. x 20-Ft. and Under Fir	8 x 8-In. x 20-Ft. and Under Hemlock	8 x 8-In. x 20-Ft. and Under Spruce	12 x 12-In. 20 Ft. and Under P.	12 x 12-In. 20 Ft. and Under Fir
Boston	$73.00	$70.00	.....	$65.00	$85.00	$75.00
Kansas City	51.00	51.25	$51.25	51.25	60.00	51.25
Seattle	.....	32.00	.....	.....	.....	32.00
New Orleans	49.00	.....	.....	.....	48.00	.....
Baltimore	72.50	.....	.....	.....	82.50	.....
Cincinnati	45.00	50.00	50.00	.....	55.00	55.00
Montreal	87.00	87.00	70.00	85.00	79.00	110.00
Los Angeles†	.....	57.00	.....	.....	.....	59.00
Detroit	57.00	.....	.....	.....	67.25	67.25
Denver	.....	44.75	.....	.....	.....	44.75
Minneapolis	.....	46.00	52.00	.....	.....	46.00
Atlanta	45.00	.....	.....	.....	70.00	.....

	1-In. Rough, 10 In. x 16 Ft. and Under P.	1-In. Rough, 10 In. x 16 Ft. and Under Fir	1-In. Rough, 10 In. x 16 Ft. and Under Hemlock	2-In. T. and Gr. 10 In. x 16 Ft. P.	2-In. T. and Gr. 10 In. x 16 Ft. Fir
Boston	$110.00	.....	$52.00	$105.00	$85.00
Kansas City	102.00	106.50	106.50	113.00	112.75
Seattle	.....	37.50	.....	.....	38.50
New Orleans	75.00	.....	.....	50.00	.....
Baltimore	52.50@60	.....	.....	54@60	.....
Cincinnati	50.00	55.00	50.00	45.00	50.00
Montreal	80.00	80.00	70.00	85.00	85.00
Los Angeles	.....	58.00	.....	.....	.....
Detroit	43.00	.....	43.00	.....	44.00
Denver	.....	37.75	.....	.....	38.75
Minneapolis	.....	40.00	48.25	.....	35.75
Atlanta	50.00	.....	.....	45.00	.....

* Montreal—Up to 32 ft.; over which, $3.00 per M. increase up to 30 ft.

† Base price, 2 x 3's and 2 x 4's, 8 to 14 ft., is $54.00

Detroit—4 x 4 x 12, fir D, $50; rough fir, $53; 2 x 6 x 6, hemlock D sides, $50 2 x 12 x 18, rough fir, $52.50; 2 x 12 x 12, rough fir, $52; 2 x 4 x 16 fir D, $50

FREIGHT RATES

On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb., in carloads of 36,000 lb:

Boston	$0.41½	New Orleans	$0.51½
Buffalo	.29½	New York	.38
Chicago	.38	Pacific Coast (all rail)	1.66½†
Cincinnati	.33	Philadelphia	.35
Cleveland	.24	St. Louis	.47½
Denver	1.35*	St. Paul	.69½
Kansas City	.81½	Detroit	.33
		Baltimore	.33½

Note—Add 3% transportation tax. * Minimum carload, 40,000 lb.
† Minimum carload, 50,000 lb., structural steel only.

CONTRACTORS' SUPPLIES

STEEL SHEET PILING—The following price is base per 100 lb. f. o. b. Pittsburgh, with a comparison of a month and a year ago:

Current	One Month Ago	One Year Ago
$4.00@$4.50	$4.00@5.00	$2.55

WIRE ROPE—Discounts from list price on regular grades of bright and galvanized are as follows:

	New York
Hercules red strand, all constructions	20%
Patent flattened strand, special and cast steel	20%
Patent flattened strand, iron rope	5%
Plow steel round strand rope	30%
Special steel round strand rope	30%
Cast steel round strand rope	22½%
Iron strand and iron tiller	5%
Galvanized iron rigging and guy rope	+12%

San Francisco: Galvanized Iron Rigging and Guy Ropes, +17½%; Bright Plow, 25% off.

Chicago, + 10 on galvanized, 22½ — 2½ off on bright.

Western and California territory, 20% plow steel; 22½% galvanized iron rigging and guy rope.

Montana, Idaho and Arizona, 15% plow steel; 27½% galvanized iron rigging and guy rope.

MANILA ROPE—For rope smaller than ¾-in. the price is ½ to 2c. extra; while for quantities amounting to less than 600 ft. there is an extra charge of 1c. The number of feet per pound for the various sizes is as follows: ¼-in., 8 ft., ⅜-in., 6; ½-in., 4½; ⅝-in., 3½; ¾-in., 2 ft. 10 in.; 1-in., 2 ft. 4 in. Following is price per pound for ¾-in. and larger, in 1200-ft. coils:

Boston	$0.32½	Kansas City	$0.30½
New York	.29	New Orleans	.28½
Chicago	.27½	Los Angeles	.31
Minneapolis	.29½	Seattle	.28
San Francisco	.27	St. Louis	.26½
Atlanta	.30	Montreal	.35½
Denver	.30	Detroit	.26
Cincinnati	.35	Baltimore	.27½

EXPLOSIVES—Price per pound of dynamite in small lots and price per 25 lb. keg for black powder.

	Low Freezing 20%	Gelatin 40%	Gelatin 60%	Gelatin 80%	Black Powder
New York	.....	$0.33½	$0.36½	.....	$2.30
Boston	.....	.28	.31	$.34	
Kansas City	.2475	.27	.30	.34	2.40
Seattle	.18	.20½	.22½	.29½	2.60
Chicago	.2175	.2525	.2975	.34	2.45
Minneapolis	.2272	.2629	.2935	...	2.90
St. Louis	.25	.285	.315	35.75	2.60
Denver	.2250	.26	.29	33.25	2.80
Dallas	.265*	275	.3025	....	2.60
Los Angeles	.22	.27	.31	.	2.95
Atlanta	.2575	.2925	.3225	.3650	
Baltimore	.2525	.2875	.3175	.36	2.10
Cincinnati	.2275	.2525	.2725	.....	2.30
Montreal	.30	.32	.37	.38	4.10
New Orleans	.2650	.295	.325	.3925	2.90

* 30 Per Cent.

POLES — For spruce and plain pine poles, delivered New York, the price is as follows:

Spruce 10-in. butts, 5-in. tops, length 20-30 ft.	$8.50
Spruce 12-in. butts, 6-in. tops, length 30-40 ft.	10.50
Pine 12-in. butts, 6-in. tops, length 41-50 ft.	13.75
Pine 14-in. butts, 6-in. tops, length 51-60 ft.	22.50
Pine 14-in. butts, 6-in. tops, length 61-71 ft.	25.25

	Dallas
6-in. x 20-ft.	$4.60
6-in. x 30-ft.	7.10
8-in. x 30-ft.	8.45
8-in. x 35-ft.	10.38

OLD MATERIAL—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis the quotations are per net ton and cover delivery at the buyer's works, including freight transfer charges.

	New York	Chicago	St. Louis
No. 1 railroad wrought	$38.00	39.50	$24.00
Stove plate	24.00	24.50	26.00
No. 1 machinery cast	38.50	28.00	32.00
Machine shop turnings	13.50	8.50	10.00
Cast borings	17.00	11.00	13.00
Railroad malleable cast	23.00	22.50	24.00
Re-rolling rails	30.00	30.50@31.50	35.00
Relaying rails	56.00	57.50@62.50	45@50

SHIP SPIKES—Current prices per 100 lb.

	San Francisco		Seattle
In.	Galv.	Black	Black
½	$9.20	$8.50	$8.55
⅝	8.75	6.75	8.25
¾	8.60	6.60	8.30

Pittsburgh base, $4.75@$5.00 per 100 lb.

LABOR RATES AND CONDITIONS THROUGHOUT THE COUNTRY

S means scarce; E, enough; P, plentiful

Cities	Bricklayers	Carpenters	Hoisting Engineers	Hod Carriers	Pile Drivers	Structural Iron Workers	Common Labor	Remarks
Atlanta	$1.35E	$0.90E	$1.00E	$0.35E	.....	.....	$0.35E	Atlanta—Plenty of work.
Baltimore	1.00E	.80–90E	.87½E	.46–.54E	$0.74E	$1.00E	.35–.45E	Baltimore—Increasing supply of labor.
Boston	1.10P	1.00P	1.15@1.25P	.75P	1.25P	1.15@1.25P	.67½@.70P	Boston—Labor supply sufficient.
Cincinnati	1.25S	90S	.75E	.70E	.....	.87½E	.60S	Cincinnati—Common labor scarce.
Chicago	1.25	1.25	.....	.....	.....	1.25	1.00	Chicago—Labor plentiful but independent. Contractors report increased efficiency.
Cleveland	1.00S	.90S	1.00E	.57½E	.80E	1.00E	.57½E	
Dallas	1.25S	1.00P	1.00E	.60E	1.00E	1.25S	.50@1.00P	Dallas—All labor plentiful.
Denver	1.25E	1.16¾E	1.16¾@1.18¾E	.75@81¼E	.....	1.15¾E	.50@56.¼	Denver—No strikes. Labor supply not excessive.
Detroit	1.25P	85@1.00P	1.10P	.70E	1.10P	1.25E	.65E	Detroit—Labor plentiful in all trades. Contractors report greater efficiency on part of men.
Kansas City	1.12½	1.00	1.00	.90	1.00	1.10	.75	
Los Angeles	1.25P	.87½P	.87½P	1.00P	.87½P	.87½P	.56¼–.62½E	Los Angeles—Rates shown are union; non-union a little less; but union scale prevails generally.
Minneapolis	1.25	1.00P	1.00	.75	.....	1.00	.60	Minneapolis—Conditions normal. Plasterers now receive $1.12½@$1.25.
Montreal	1.00	.80–.85S	.65S	.50@.60S	.50	.50–.65	.47½–.55S	Montreal—Common labor scarce.
New Orleans	1.00E	.95E	1.00E	.50@.60E	1.00E	1.00E	.40S	New Orleans—Building trade stagnant, owing to high cost of labor and materials.
New York	1.25	1.12½	1.25	.87½	1.12½	1.12½	.75–.80	New York—Agreement of Nov. 20, 1919, was modified as shown, effective May 1, 1920. Excavators, 75c.; Concrete workers, 81¼c.
Pittsburgh	1.50P	1.25P	1.12½P	1.00P	1.00P	1.25S	.80E	Pittsburgh—Conditions normal.
St. Louis	1.25E	1.25E	1.25E	.85E	1.00P	1.25E	.52–.75E	St. Louis—Hoisting engines receive $1.37½ on double hoist. Plaster hodcarriers receive 94¼c. Labor situation easy in all building trades.
San Francisco	1.25E	1.12½E	1.12½E	.0E	1.12½E	1.12½E	.81¼E	San Francisco—Sufficient labor of the trades shown, but there is a scarcity of concrete workers.
Seattle	1.25	1.00	1@1.12	.75	1.00	1.00	.75E	Seattle—Not much building construction in prospect.

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close			See Eng. News-Record
Nov.	8	Charlotte, Mich.	Oct. 28
Nov.	9	Liberal, Kan.	Nov. 4
Nov.	9	Phila., Pa.	Nov. 4
Nov.	16	Oxford, Mich.	Oct. 21
Nov.	16	Oxford, Mich.	Oct. 28

SEWERS

Nov.	6	Chicopee, Mass.	Nov. 4
Nov.	8	Syracuse, N. Y.	Oct. 21
Nov.	8	Chaldron, Neb.	Nov. 4
Nov.	9	Rayville, La.	Oct. 21
Nov.	10	Akron, O. Adv. Oct. 28 and Nov. 4.	Oct. 28
Nov.	12	Crystal Lake, Ill. Adv. Nov. 4.	Nov. 4
Nov.	15	Chardon, Neb.	Nov. 4
Nov.	16	Paterson, N. J.	Nov. 4

BRIDGES

Nov.	8	Jefferson City, Mo.	Oct. 28
Nov.	9	Marysville, Kan.	Nov. 4
Nov.	10	Long Beach, N. Y. Adv. Oct. 21 to Nov. 4.	Oct. 28
Nov.	10	Bad Axe, Mich.	Oct. 28
Nov.	10	Brantford, Ont.	Nov. 4
Nov.	10	Michigan	Nov. 4
Nov.	11	Ft. Worth, Tex.	Nov. 4
Nov.	12	Michigan	Nov. 4
Nov.	15	Michigan	Nov. 4
Nov.	22	Alamo, Ga.	Nov. 4
Nov.	22	Victoria, B. C.	Nov. 4
Mar.	1	Ontario	Nov. 4

STREETS AND ROADS

Nov.	8	Arcadia, La.	Oct. 21
Nov.	8	Anahuac, Tex.	Oct. 21
Nov.	8	Pittsboro, N. C.	Oct. 21
Nov.	8	Newberry, S. C.	Oct. 28
Nov.	8	Waxahachie, Tex.	Oct. 28
Nov.	8	San Marcos, Tex.	Oct. 28
Nov.	8	San Diego, Cal.	Nov. 4
Nov.	8	Chaldron, Neb.	Nov. 4
Nov.	9	Maryland Adv. Oct. 28 and Nov. 4.	Oct. 28
Nov.	9	Michigan	Oct. 28
Nov.	9	Jackson, Minn.	Nov. 4
Nov.	10	Alabama	Oct. 21
Nov.	10	St. George, S. I., N. Y.	Nov. 4
Nov.	10	Brooklyn, N. Y.	Nov. 4
Nov.	11	Fredericksburg, Tex.	Oct. 21
Nov.	11	Arizona	Oct. 28
Nov.	11	Ft. Worth, Tex.	Nov. 4
Nov.	11	St. Albans, W. Va.	Nov 4
Nov.	12	Salina, Kans.	Oct. 21
Nov.	12	Birmingham, Ala.	Oct. 21
Nov.	12	Ohio	Nov. 4
Nov.	12	Missouri	Nov. 4
Nov.	13	Bay City, Tex.	Oct. 28
Nov	13	Michigan	Nov. 4
Nov.	15	Oskaloosa, Kan.	Oct. 21
Nov.	15	Indiana	Oct. 28
Nov	15	Mantorville, Minn.	Nov. 4
Nov.	15	Boston, Tex.	Nov. 4
Nov.	16	Lyon, Kan.	Oct. 14
Nov.	16	St. Louis, Mo.	Oct. 28
Nov.	16	Crystal Falls, Mich.	Nov. 4
Nov	16	Lake City, Mich.	Nov 4
Nov.	16	Ontario	Nov. 4
Nov.	17	Providence, R. I. Adv. Oct. 28 and Nov. 4	Oct. 28
Nov.	21	Joliett	
Nov.	23	Leavenworth, Kan.	Nov. 4
Nov.	27	Missouri	Nov. 4
Nov.	29	Topeka, Kan.	Nov. 4
Jan.	2	Duluth, Minn.	Oct. 28
Jan.	5	Colorado Springs, Col.	Oct. 21

EXCAVATION AND DREDGING

Nov.	9	Norwalk, O.	Oct. 21

INDUSTRIAL WORKS

Nov.	9	Phila., Pa.	Nov. 4
Nov.	11	New York, N. Y.	Nov. 4
Dec	1	Metuchen, N. J.	Oct 28

BUILDINGS

Bids Close			See Eng. News-Record
Nov.	8	Tulsa Okla.	Oct. 28
Nov.	9	Detroit, Mich.	Oct. 28
Nov.	10	Bethlehem, Pa.	Nov. 4
Nov.	11	Long Prairie, Minn.	Nov. 4
Nov.	12	Pocahontas, Ia.	Oct. 28
Nov.	13	Bedford, O.	Oct. 28
Nov.	15	Baltimore, Md.	Oct. 28
Nov.	15	Enid, Okla.	Oct. 28
Nov.	16	Shelby, Ia.	Oct. 28
Nov.	20	Duluth, Minn.	Nov. 4
Nov.	22	Buffalo, N. Y.	Oct. 28
Nov.	24	Cleveland Heights (Warrensville P. O.), O.	Nov. 4
Dec.	6	Ossining, N. Y.	Oct. 21
Dec.	10	Brooklyn, N. Y.	Oct. 21
Jan.	2	Duluth, Minn.	Oct. 21
Jan.	2	Duluth, Minn.	Oct. 28
Jan.	2	Cortland, N. Y.	Oct. 21
Jan.	2	Hibbing, Minn.	Nov. 4

FEDERAL GOVERNMENT WORK

Nov.	5	Steel Barges—Vicksburg, Miss. Adv. Oct. 14 to Nov. 4.	Oct. 14
Nov.	8	Post Office—Front Royal, Va.	Oct. 21
Nov.	9	Loading Shed—Bloomington, Ill.	Oct. 28
Nov.	9	Electric Lighting System—Phila., Pa. Adv. Oct. 28 and Nov. 4.	Oct. 28
Nov.	10	Mezzanine Floor—Indianapolis, Ind.	Oct. 28
Nov.	10	Pumping Facilities—Wash. D. C.	Oct. 14
Nov.	10	Centrifugal Pumps, etc. —Wash., D. C. Adv. Oct. 21 to Nov. 4.	Oct 28
Nov.	10	Electric Traveling Bridge Crane—Spec. 4250—New York, N. Y.	Oct. 28
Nov.	10	Steam Locomotive Crane — Spec. 4263—South Boston P. O.), Mass.	Oct. 28
Nov.	11	Conduit, etc.—Wash., D. C.	Oct. 21
Nov.	15	Marine Hospital—Phila, Pa.	Oct. 21
Nov.	15	Extending Mailing Vestibule, etc.—Akron, O.	Oct. 21
Nov	16	Extension to Mailing Vestibule—Portsmouth, O.	Oct. 28
Nov.	16	Mezzanine Floors, etc. — Allentown, Pa. Adv. Nov. 4.	Nov. 4
Nov.	17	Marine Railway—Spec. 4254 —Pearl Harbor, H. T.	Oct. 14
Nov.	17	Nurses Quarters—Spec. 4293 —Puget Sound, Wash.	Oct. 28
Nov.	17	Ordnance Buildings—Spec. 4168—Pearl Harbor, H. T.	Oct. 14
Nov.	17	Remodeling Post Office and Court House—Sacramento, Cal.	Oct. 21
Nov.	17	Alterations and Additions to Main Building, etc.—Spec. 4273—Chelsea, Mass.	Nov. 4
Nov.	18	Earthwork—St. Louis, Mo. Adv. Oct. 21 to Nov. 4.	Oct. 21
Nov.	18	Post Office—Athens, Tenn.	Oct. 28
Nov.	19	Altering Post Office and Custom House—Oswego, N. Y.	Oct. 28
Nov	24	Quartermasters Storehouses Spec. 4280—San Diego, Cal.	Nov. 4
Nov.	24	Redredging — Galveston, Tex. Adv. Oct. 28 and Nov. 4.	Nov. 4
Dec.	1	Ordnance Buildings—Spec. 4168—Kuahua, H. T.	Nov. 4

MISCELLANEOUS

Nov.	9	Power Plant Equipment — Michigan City, Ind.	Oct. 28
Nov.	9	Refrigerating Apparatus—Sonyea, N. Y. Adv. Nov. 4.	Nov. 4
Nov	12	Pump, etc.—Albany, Wis.	Nov. 4
Nov.	16	Head Gates—Baldwinsville, N. Y. Adv. Oct. 21 to Nov. 4.	Oct. 21
Nov.	16	Dockwall—Buffalo, N. Y.	Oct. 21
Nov.	16	Arena—Toronto, Ont.	Nov. 4
Nov.	17	Laundry Equipment—Hudson, N. Y. Adv. Nov. 4.	Nov. 4
Nov.	22	Lock and Dam—Chicago, Ill. Adv. Oct. 21 to Nov. 4.	Oct. 21
Nov.	23	Heating, etc. —Ossining, N. Y. Adv. Oct. 28 and Nov. 4.	Oct. 28

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

W. Va., Wheeling—City having surveys made by Chester & Fleming, engrs., Union Bank Bldg., Pittsburgh, Pa., for chemical-mechanical filtration system. Noted Oct. 10, 1918.

O., Idlewood (Warrensville P. O.)—See "Sewers."

Mo., Kansas City—City having plans prepared for waterworks system. About $75,000,000. Fuller & McClintock, 170 Broadway, New York City, engrs.

Tex., Yorktown—City plans to improve waterworks and build $15,000 tower and stand pipe. Address, Mayor.

Ore., Burns—City had plans prepared by L. C. Kelsey, engr., Portland, and Nampa, Idaho, for constructing waterworks system. About $126,064. Noted June 17.

Ore., The Dalles—City retained L. C. Kelsey, engr., Portland, and Nampa, Idaho, to prepare plans for increasing present water supply.

Ont., St. Thomas—City plans to build rein.-con. storage dam for waterworks system. About $250,000. W. S. Lea, 10 Cathcart St., Montreal, Que., engr.

Ont., York—Twp. plans to build 250,000 gal. elevated steel water tank. About $30,000. F. Barber, 40 Jarvis St., Toronto engr.

BIDS DESIRED

Pa., Phila.—Until Nov. 9, by F. H. Craven, dir. Dept. Pub. Wks., Room 216, City Hall, laying 6-12 in. water pipe, Contr. 429; furnishing and delivering 6-12 in. water pipe, Contr. 430; laying 48 in. water pipe in West Phila., Contr. 431; chlorine apparatus, Contr. 432; special castings for Queen Lane pumping sta., Contr. 433; steam flow meters, Contr. 434; superheaters, Contr. 435; boiler feed pumps, Contr. 436; electric generator, Contr. 437.

Kan., Liberal—Until Nov. 9, by City Council, building 18 x 300 ft. well, 2 centrifugal pumps for 365 ft. head, direct connected 75 hp. motors and 2 tile pump houses and steel towers, work involves 20,000 ft. 4 in. c.i. pipe. About $98,000. Ruckel Eng. Co., Hutchinson, engrs.

Ont., Toronto—City receiving bids for laying and jointing 3,600 ft. 24 in. c.i. water mains. Pipe to be supplied by city, lead and other materials by contractor. About $15,000. R. C. Harris, city engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. J., Newark—North Jersey Dist. Water Supply Comn., 20 Clinton St., received bids Oct. 28, building portion of Wanaque Dam, from Rollin Constr. Corp., 90 West St., New York City, $1,421,227. Work involves 44,000 cu.yd. earth excav. sloped for core-wall, at $1.14 per cu.yd., 32,000 cu.yd. core-wall trench above elevation 150 ft., $7.20, 3,000 cu.yd. below elevation 150 ft., $12.67, 4,500 cu.yd. earth excav., general, $2.54, 7,000 cu.yd. rock excav. by specific methods, $8.70, rock excav., general, $6.33, 8,000 cu.yd. clay puddle, $6.60, 22,000 cu.yd. refill and embankment, impervious earth, $2.54, general, $1.27, 46,000 bbl. cement, $3.16, 28,500 cu.yd. concrete, $9, furnishing 1,000 ton steel sheet piling, $117.50, driving 125,000 sq.ft. steel sheet piling, $0.76, 1,500 lin.ft. vitr. pipe, $0.63, etc.; W. H. Gahagan, Inc., 147 Remsen St., Brooklyn, price on (a) Class 1 constr., ($1,124,150, (b) 4% bid fee, $44,966, (c) Class 2 constr., $250,000, (d) 4% bid fee, $10,000, total, $1,429,116; C. F. MacEvoy and Linde & Griffith, 4th Ave., Newark, (a) $1,124,150, (b) $44,966, (c) $250,000, (d) $10,000, total $1,429,116. Noted Oct. 7.

N. J., Ventnor City—Common Council received bids Oct. 25, altering and building additions to waterworks system, from M. B. Markland, $125,700; Smithe, Letzeus & Seamen, $159,610; W. Beaumont, $158,[illegible]. Noted Oct. 7.

★Tex., Dallas—City let contract furnishing and installing centrifugal water pumps with 25,000,000 gal. daily capacity, to Jones & Allinger, Dallas. About $82,000. Noted Sept. 9.

Sewers

PROPOSED WORK

Conn., New Britain—City plans to build vitr. sewers in Lorraine St. About $15,000. J. D. Williams, city engr.

Tex., Dallas—City soon receives bids building sanitary sewers in Parkview Addition. About $25,000. Former bids rejected. G. D. Fairtrace, city engr.

Tex., Yorktown—City plans to build sewerage system. Address Mayor.

Idaho, Filer—City had plans prepared by L. C. Kelsey, engr., Nampa, for sewerage system. About $117,478.

Ore., Burns—City had plans prepared by L. C. Kelsey, engr., Portland, and Nampa, Idaho, for constructing sewerage system. About $150,989. Noted June 17.

Cal., Selma—City plans to build outfall sewer and 3 drainage laterals. Bonds for $90,000 voted for project. J. S. Bates, Powell Bldg., Fresno, engr.

Cal., Watts—City plans to build main sewerage system and sewage disposal plant. About $120,000. Koebig & Koebig, 841 Title Insurance Bldg., Los Angeles, consult. engrs.

Ont., London—City having plans prepared for sewerage system in connection with exhibition grounds. Work involves 8-12 in. vitr. tile pipe. About $18,000. H. A. Brazier, city, engr.

BIDS DESIRED

Mass., Chicopee—Until Nov. 6, by F. P. Cobb, city engr., completing Willimansett Sewer in McKinstry Ave and Meadow Rd., segmental block. Cost to exceed $25,000.

N. J., Paterson—Until Nov. 16, by J. R. Van Duyne, ch. engr., Passaic Valley Sewerage Comn., 128 Market St., Newark, building portion of Sect. 21 North, Prospect St. Branch Sewer, involving 720 lin.ft. earth excav. and refilling for 16 in. c.i. pipe, 10 cu.yd. rock excav. in trench, 70 cu.yd. concrete masonry, 20 cu.yd. brick masonry, 705 lin.ft. c.i. pipes and specials, etc. Comrs. to furnish c.i. pipe.

Ill., Crystal Lake—Until Nov. 12, by Bd. Local Impvts., building sewerage system, to include automatic sewage lift and sewage purification plant. Wells Eng. Co., Aurora, engrs.; advertised in this issue.

Wis., Drummond—See "Miscellaneous."

Kan., Leavenworth—Until Nov. 23 by Leavenworth Co., grading, building culverts and bridges on 12.64 mi. Fort to Fort Highway, Project 13, D. E. F., 18 ft. wide. About $400,000. L. C. Clarke, Leavenworth, engr.

Kan., Topeka—Until Nov. 29, by Shawnee Co., grading and building culverts on 7.865 mi. Golden Belt, (Upper Silver Lake), Project 58, 18 ft. wide. About $70,000. A. C. Logerwall, Topeka, engr.

Neb., Chadron—Until Nov. 8, by City Council, building 7,000 ft. storm sewers in Impvt. Dist 2 and 3. R. D. Salisbury Co., 1600 Downing St., Denver, Col., engr.

Neb., Chadron—Until Nov. 15 by city, building complete sewage disposal plant, septic tank and sand filler, etc. About $50,000. R. D. Salisbury, 1600 Downing St., Denver, Col., engr. Noted Oct. 7.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. J., Montclair—Bd. Comrs. received low bid Oct. 7, building 3,700 ft. sewer from point in brook near Bloomfield, to Belleville Ave. and west to Park Ave., from M. Saggese, $27,759. Noted Sept. 3.

★Pa., Phila.—J. C. Winston, dir. Pub. Wks., let contract to Cunningham & Murray, 1345 Arch St., building sewer in Berks St. from 56th to 57th Sts., $5,300; to P. Ellis, Garfield St. from Greene to Royal Sts. and Royal St. from Seymour to Garfield Sts., $11,500, Luzerne St. from L to O Sts., $58,000; to A. Ellis, Ontario St. from Front to Water Sts., $6,000; to J. J. McHugh, Broad St. from 69th Ave. to point 210 ft. north, $2,300, Chalmers St. from Indiana to Somerset Sts., $14,000, Clarion St., $3,700, 59th St. from Springfield to Beaumont Sts., $20,000, Lawrence St. from Butler to Pike Sts. and Pike St. from Lawrence to 5th Sts., $9,000, Palethorpe St. from Clearfield to Lippincott Sts. $3,700, Palethorpe St. from Tioga St. to Glenwood Ave., $4,500, Peters St. from 8th to 29th Sts., $3,600, Venango St. from Front to A Sts., $7,560; to Ryan & Haller, 3rd St. from Norris to Diamond Sts. and Diamond St. from 3rd to 4th Sts., 4th St. from Diamond St. to Susquehanna Ave., $65,000, 13th St. from Porter to Moyamensing Ave., $5,000; to W. J. Lowe, Inc., Lansdowne Ave. from 65th to 66th Sts., $5,000; to McCool Constr. Co., Filmore St. from Leiper to Oakland Sts., $10,200; to A. A. Pastore, Beaumont St. from 56th to 57th Sts., $14,500, Litchfield St. from 56th to 57th Sts., $12,500; to J. Moss, Chew St. from 3rd to Lawrence Sts., $14,000; Estate of D. McMahon, Germantown and Chelton Sts., Mayland St. from Musgrave St. to point 150 ft. northwest, $4,500; to Higgins & Reilly, Marshall St. from Hunting Park Ave. to Bristol St., $11,500; to E. A. Mullin, 65th St. form Lansdowne to Havertord Aves., $30,000; to J. Perna, Lancaster Ave. from 56th to 59th Sts., $81,000; to J. Lombardi, 937 Carpenter St., Hall St. from 10th to Clifton Sts., $5,000; to P. Valentine, 6th St. from Annsbury St. to Boulevard, $15,000; to A. Casciato, Bonnafen St. from Greenway to Upland Sts., $4,600, Edmund St. from St. Vincent to Cottman Sts., $7,500; to N. Cascetti, 28th St. from Moore to Snyder Aves., $20,000; to C. Ricciardi, Durfor St. from 4th to 5th Sts., $6,500, Juniper St. from Shunk St. north, $5,000, and Watts St. from Shunk St. north, $5,000. Noted Oct. 7.

★Pa., Phila.—City let contracts building sewers in B St., between Rosehill and Erie Sts., and in Somerdale, Adams and Frankford Branch of Pennsylvania R.R., to J. Perna, 65th and Callowhill Sts., $100,000 and $50,000 respectively; in Bingham St. between Tacony and Adams Sts., to R. Lombardi, 7th and Christian Sts., $63,000; in Ditman St. between Shelmire and Maple Sts., to Curtis Bros., League Island, $75,000; in Godfrey Ave. between 10th and Broad Sts., to E. Pascuzzi, Lincoln Bldg., $32,000; in 9th St. between Champlost St. and Green Lane, to Estate of D. McMahon, Germantown and Chelton Sts., $93,000; building inlets, to F. T. Buckius, Jr., Kensington and Deal Sts., $25,000.

W. Va., Charleston—City Council received bid extending sewerage system in Carr, Garvin, Beechwood, Hansford and Piedmont Sts., from T. B. Roberts, Charleston, $42,510.

★O., Akron—City let contract building sewers, drains and inlets in South Maple St. from West Market to West Exchange Sts., segmental block, to T. E. McShaffrey Constr. Co., $59,426.

★O., Cleveland—Amer. Steel & Wire Co., Western Reserve Bldg., let contract installing 10 x 1,400 ft. water tunnel, in Newberg Wks., to Stevens-McKeon Co., 5600 Linwood Ave. About $75,000.

★Minn., Minneapolis—City will expend $600,000 on sewer construction next year. Work will be done by day labor.

Kan., Wichita—City let contract building Storm Sewer No. 19, involving 2,300 ft. 30-36 in. segment block brick, 13,300 ft. 10-27 in. vitr. pipe, etc., to H. L. Miles, 809 Beacon Bldg., $56,518. Noted Sept. 30.

★Wash., Seattle—City let contract building sewers, et al, in Hinds St., et al, to Fiorito Bros., 6022 2nd St., N. W., $46,096. Noted Oct. 28.

★Cal., Yuma—City let contract building sanitary sewerage system, including septic tank with necessary manholes, etc., to Gordon Constr. Co., Century Bldg., Denver. About $60,000. Noted Aug. 26.

★Ont., Toronto—City let contracts building sewers in Carthness Ave., York St., Glebeholme and Milverton Blvds., to Wks. Dept., City Hall, cost $16,635, $16,151, $9,034 and $11,381; Colin Ave., to Grant Contg. Co., 50 Front St. E., $10,500; Boultkee Ave., to Murphy Contg. Co., 8 Wychwood Park, $5,544; Strathmore Blvd. to A. E. Jupp Constr. Co., 170 Berkeley St., $5,180.

Bridges

PROPOSED WORK

North Carolina—State Highway Comn., Raleigh, having plans prepared and soon receives bids building bridge, 300 ft. long, with draw span and 2,640 ft. viaduct approaches over Roanoke River, also three 40 ft. spans with 1,300 ft. viaduct approaches over Coinine Creek and one 40 ft. span over small creek, Martin and Bertie Counties. Rein.-con. and steel structures being considered. About $327,000. W. L. Craven, bridge engr.

Alabama—State Highway Dept., Montgomery, having plans prepared for two 75 ft. through riveted Pratt trusses and 3 concrete piers, averaging 20 ft. high, over Flint Creek, near Hartselle, Morgan Co. L. G. Smith, c/o State Highway Dept., bridge engr.

Alabama—State Highway Dept., Montgomery, having surveys made for four 225 ft. steel spans and 3 piers, 90 ft. high, and 2 piers, 20 ft. high, solid rock foundation, over Tallapoosa River, Tallapoosa Co. Total length, about 900 ft., 18 ft. roadway. About $300,000. W. S. Keller, state highway engr.

Ala., Collinsville—City and State Highway Dept., Montgomery, having plans prepared for 105 ft. concrete bridge, 30 ft. roadway, two 5 ft. sidewalks, to have 6 spans with solid concrete piers, etc., over creek, here. W. S. Keller, state highway engr.

Tenn., Nashville—City had plans prepared by Freeland, Roberts & Aker, consult. engrs., Independent Life Bldg., constructing Church St. viaduct. Project will mature in spring. Bonds for $350,000 voted for project. Cost will be borne by city, street railway and railroads.

Tex., Breckenridge—Stephens Co. having plans prepared for 229 ft. concrete viaduct, 44 ft. wide, over Gonzales Creek, at foot of Walker St., here, to have electric light posts and 2 ft. 6 in. sidewalks. Work involves 161,123 lb. reinforcing steel, 763 cu. yd. excav., 980 sq.yd. paving, 843.2 cu.yd. Class "A" and 223.4 cu.yd. Class "B" rein.-con., etc. About $69,437. Nagle-Witt-Rollins Eng. Co., Breckenridge, co. engrs.

Wash., Yakima—Yakima Co. received bids building steel bridge over Moxee River, near here, to have two 301, steel spans, 20 ft. wide, involving 263 tons steel, from Union Bridge Co., Seattle, $94,987; Illinois Steel Co., 1054 4th Ave. S., $95,990; C. L. Graves Co., Spokane, $96,720.

BIDS DESIRED

Ga., Alamo—Until Nov. 22, by Bd. Comrs. Rds. and Revenues, Wheeler Co., building 4 rein.-con. bridges and 12 concrete box culverts on highway between here and Mt. Vernon, Federal Aid Project 76. Work involves 742.7 cu.yd. Class "A" and 424.7 cu.yd. Class "B" concrete, 687 cu.yd. wet and dry excav., 95,914 lb. reinforcing steel, etc. Garrett & Slack, Bell Bldg., Montgomery, Ala., engrs.

Michigan—Until Nov. 12, by State Highway Comn., Lansing, building State Trunk Line Bridge 395-771,693, over Black Creek, Kenochee Twp., 157 ft. long, 20 ft. roadway, involving 493.1 cu.yd. rein.-con. and 94.2 cu.yd. concrete.

Michigan—Until Nov. 10, by State Highway Comn., Lansing, building Trunk Line Bridge 413-570,901 over Clam River, Lake Twp., 40 ft. long, 20 ft. roadway, involving 82.9 cu.yd. rein.-con. and 397 cu.yd. concrete.

Michigan—Until Nov. 15, by F. F. Rogers, State highway comr., Lansing, building Bridge F. A. 4-611, 102 F. A., over drain between Sects. 21 and 28, T 10 N, R 14 W, Moorland Twp., to have two 9 ft. 6 in. abutments with 136 cu.yd. volume, 35 ft. concrete girder with 63 cu.yd volume and channel change of 600 cu.yd. volume; Bridge F. A. 5, 611, 103 F. A., over drain in Sect. 19, T 10 N, R 14 W, Moorland Twp., to have two 8 ft. 6 in. abutments with 91 cu.yd. volume, 35 ft. concrete girder with 65 cu.yd. volume and channel change of 50 cu.yd. volume; Bridge 610, 201 F. A., over Crockery Creek between Sects. 19 and 30, T 10 N, R 13, W, Casnovia Twp., to have two 14 ft. abutments with 252 cu.yd. volume, 35 ft. concrete girder with 66 cu. yd. volume, all above to be on Federal Aid Project 43, Muskegon Co.

Kan., Marysville—Until Nov. 9, by Clerk Marshall Co., furnishing labor and material building 200 ft. steel truss span bridge on Sect. 21-T A-B9; 40 ft. rein.-con. girder bridge between Sect. 17-20 T5 and R 10; one 24 ft. rein.-con. span bridge on north side Sect 1 T1, R6, one 24 ft. beam span on south side Sect. 31, T2, R6, one 24 ft. beam span bridge on west side Sect. 30, T2, R7; 42 ft. steel span bridge on Sect. 1, T1, R7; 421 ft. steel span bridge between Sect. 35 and 36, T2, R9; 50 ft. steel span bridge on north line Sect. 4, T1, R10, R. F. Gallup, Marysville, engr.

Tex., Ft. Worth—Until Nov. 11 (change of date), by H. L. Small, judge Tarrant Co., building 112 ft. rein.-con. bridge, 20 ft. wide, on Highway 1, over Marys Creek. R. V. Glenn, Court House, consult. engr. Noted Oct. 21.

Ontario—Until March 1, by W. A. McLean, deputy minister of highways, Parliament Bldgs., Toronto, building concrete culverts and grading in various townships. Cement and steel will be supplied by owners. Total cost between $1,500,000 and $2,000,000.

Ont., Aylmer—Until Nov. 12, by J. A. Bell & Son, engrs., Court House, St. Thomas, building 300 ft. steel bridge on concrete foundation, over Salters Gully, Malahide Twp. About $45,000.

Bridges (Continued)

Ont., Brantford—Until Nov. 10, by H. Simpson, chn. Bd. Pub. Wks., building two 175 ft. rein.-con. arches, piers, abutments and concrete approaches, over Grand River. About $250,000. E. A. James Co., 36 Toronto St., Toronto, engrs.

B. C., Victoria—Until Nov. 22, by City Clerk, building greater part of substructure (Contr. 1) of Johnson St. Bridge; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Alabama—State Highway Dept., Montgomery, received bids building two 175 ft. and two 120 ft. steel spans over Tallapoosa River, near Judkins Ferry, Montgomery and Elmore Counties, from Virginia Bridge & Iron Co., Roanoke, Va., $59,589; Austin Bros. Bridge Co., 156 Greenwood Ave., Atlanta, Ga., $69,000; Pensacola Shipbuilding Co., Blount Bldg., Pensacola, Fla., $70,200; 5 concrete piers and 451 ft. approaches, from Sartan, Smith & Dobson, Montgomery, $103,343; Pensacola Shipbuilding Co., Blount Bldg., Pensacola, Fla., $108,744; Hardaway Constr. Co., Columbus, Ga., $114,676. Noted Sept. 23.

★**Wis., Oshkosh**—Park Rd. let contract building rein.-con. and stone bridge in Menominee Park, to Ganther & Kroyer, Oshkosh, $23,565.

★**Minn., Minneapolis**—Great Northern Ry. Co., Railroad Bldg., St. Paul, let contract lowering tracks and building concrete viaducts, here, to N. W. and W. A. Nelson, 460 Temple Court. About $680,000.

★**Kan., Garnett**—Anderson Co. let contract building 50 ft. through girder bridge, 20 ft. wide, on King of Trail Rd., 4 mi. north of here, involving 446.9 cu.yd. rein.-con. and 12.8 tons steel, to W. S. Tucker, Wellsville, $17,922.

★**Tex., Ft. Worth**—Larrant Co. let contract building 30 ft. steel span bridge, 20 ft. wide, concrete abutments, over Big Fossil Creek, on Kellar Rd., to Echols Bros., 1010½ Main St., $20,952.

Streets and Roads

PROPOSED WORK

N. Y., Brooklyn—E. Riegelmann, boro. pres., received no bids Oct. 27, regulating and repaving with wood block 72nd St. from 3rd to 6th Aves. Noted Oct. 21.

Fla., Miami—Comrs. Dade Co. voted $75,000 bonds to build 32 mi. Tamiame Trail and road to Penn Sugar Plantation, 15 ft. wide, vitr. brick or asphalt.

Alabama—State Highway Comn., Montgomery, having plans prepared for grading, draining and surfacing with sand clay on sand base 6.311 mi. state road, from Butler to Riderwood, Choctaw Co. About $50,000. W. S. Keller, state highway engr.

Alabama—State Highway Comn., Montgomery, having plans prepared for grading, draining and surfacing 20.62 mi state road from Monroeville to Little River, Monroe Co., gravel or sand clay. About $160,000. W. S. Keller, state highway engr.

O., Cleveland—City plans to grade, drain, curb and pave East 105th St. from Kinsman to Armstrong Aves., Hamilton Ave. from East 22nd and East 33rd Sts., brick on concrete base. About $75,250. R. Hoffman, city engr.

O., Cleveland—City plans to widen and pave Carnegie Ave. from East 55th to East 89th Sts., asphalt on 6 in. concrete base. About $155,045.

O., Cleveland—Comrs. Cuyahoga Co. plan to grade, drain and pave Bway. from East 55th St. to Miles Ave., Chagrin River Rd. from Mayfield Rd. northerly to county line, Detroit Ave. from West 117th St. to West Blvd., North Ridge Rd. to Lorain Rd., Lee Rd. from Shaker Heights Village to Bway., Lloyd Rd. from Lake Shore Blvd. southerly, Depot Rd. to county line, Royalton Rd. to county line, Spencer-Mastic Rd., from Lorain to Columbia Rds., York-Bennet Rd. from Royalton Rd. to county line, Pleasant Valley Rd. from Wooster Pike to State Rd., West Madison Ave. through city of Lakewood, Prospect Rd. to Hunt Rd., also Drake, Hall, Prospect, Ridge, and Snow Rds. About $5,000,000. W. A. Stinchcomb, Court House, engr.

O., Cleveland—Comrs. Cuyahoga Co. plan to build new brick floor on Harvard-Denison Bridge. About $250,000. W. A. Stinchcomb, Court House, engr.

O., East Cleveland (Cleveland P. O.)—City plans to grade, drain, curb and pave East 133rd St. from Mann to Shaw Aves., brick on concrete base. About $22,000. M. Garnett, City Hall, engr.

O., Lakewood (Cleveland P. O.)—Bd. Educ. Warren Rd., plans to grade and build sidewalks on various school grounds. About $58,500. G. Grill, clk. Private plans.

O., Niles—Comrs. Trumbull Co. soon receive bids paving road from Niles to Mineral Ridge, brick. About $100,000.

Ill., Carterville—Bd. Local Impvts. receives bids about Dec. 20, paving various streets. About $30,000. P. B. Wilson, Marion, engr.

Wis., Ashland—City having plans prepared paving Ellis Ave. from 6th to 12th Sts., bitulithic top on old macadam foundation; Vaughn Ave. from 2nd to 6th Sts. and 3rd St. from 14th Ave. W. to Cemetery Rd., concrete; 3rd St. from Ellis to Stuntz Aves., bitulithic top; Stuntz Ave. from 2nd to 3rd Sts., and all blocks between 2nd and 3rd Sts. from 2nd St. to Stuntz Ave. W. C. Morris, city clk.

Wis., Racine—Racine Co. State Rd. and Bridge Com. instructed W. O. Thomas, highway comr., to prepare surveys for Durand Rd. from here to Corliss; North Cape Rd. from 12th St. to Milwaukee Co. line; Rochester-Waterford-Windlake Rd. from 12th St. (Rochester) through Waterford to Sect. 24; Burlington-Elkhorn Rd., State Trunk Highway 20 from Burlington to Walworth Co. line.

Wis., Racine—Racine Co. State Rd. and Bridge Com. recommends completion of 12th State Rd. from here to Rochester, Burlington, Geneva Rd. and Walworth Co. line.

Kan., Concordia—Cloud Co. had plans prepared for graveling, grading and building bridges and culverts on 2.15 mi. road, 20 ft. wide, concrete or gravel. Bids soon on earthwork. B. C. Thurston, Concordia, engr.

Kan., Goodland—City plans to pave 8 blocks, 40 to 60 ft. wide. Black & Veach, Mutual Bldg., Kansas City, Mo., engrs.

Kan., Kansas City—Wyandotte Co. had plans prepared for grading and building culverts on 1.05 mi Golden Belt, 18 ft. wide. About $40,850. O. K. Williamson, Kansas City, Mo., engr.

Kan., Yates City—City plans to pave 9 blocks Main St., 60 ft. wide. Black & Veach, Mutual Bldg., Kansas City, Mo., engrs.

Missouri—State Highway Dept., Fulton, received no bids Oct. 22, building 18 mi. Fulton-Jefferson City Rd. (New Bloomfield Spec. Rd. Dist., 24 ft. wide, Federal Aid Project 97, Calloway Co., cost $119,757; 2 bridges, 1 over drainage ditch and other over Middle River, $5,198 and $8,499 respectively. Noted Sept. 30.

Mo., St. Louis—City plans to repave 800 ft. Wieschan Ave., 26 ft. wide, brick, cost $17,760, asphalt, $16,100 or bituminous macadam, $12,600; 285 ft. Motard Ave., 24 ft. wide, including grading of sidewalk spaces for 8 ft. sidewalk, brick, $5,600, asphalt, $5,600 or bitulithic, $5,600; 1,420 ft. Ohio Ave., 30 ft. wide, brick, $32,000, asphalt, $32,200, or bitulithic, $32,000; 600 ft Wilson Ave., 30 ft. wide, brick, $13,400, asphalt, $13,450, or bitulithic, $13,400; 1,170 ft. Ray Ave., 24 ft. wide, asphalt, $26,450, bitulithic, $26,350, or bituminous macadam, $21,250; 1,780 ft. Magnolia Ave., 30 ft. wide, asphalt, $37,750, bitulithic, $37,650, or bituminous macadam, $28,750; 807 ft. alley between Pennsylvania and Compton Aves. from Eads to St. Vincent Aves., 15 ft. wide, brick, $7,000, or concrete, $5,200; grading, including grading of sidewalk spaces on 2,040 ft. McCune Ave., 60 ft. wide, $7,500. W. W. Horner, City Hall, engr.

Texas, Columbus—Colorado Co. having plans prepared surfacing and draining 4.57 mi. Highway 3, Glidden-Borden Rd., involving 15 acres clearing and grubbing, 27,510 cu.yd. borrow, 330 cu.yd. Class "A" concrete, 9,640 cu.yd. gravel and 22,000 lb. reinforcing steel. About $50,001. B. H. Faber, co. engr.

Tex., Daingerfield—Morris Co. having plans prepared grading, surfacing and building concrete culverts and timber trestles on 2.694 mi. Highway 35, from Boggy Creek to Titus Co. line, involving 9,498 cu.yd. borrow and 13,504 cu.yd. earth excav., 5,785 lb. reinforcing steel, 47,130 ft. lumber, 68.6 cu.yd. Class "A," 21.6 cu.yd. Class "B" and 10 cu.yd. Class "C" concrete. About $41,476. McLendon & Purnell, co. engr.

Tex., Hereford—Deaf Smith Co. plans to grade and surface 2 mi. 3rd and 4th Sts., 40 ft. wide, bituminous macadam. About $200,000. W. Houren, c/o H. Exall Elrod Co., Interurban Bldg., Dallas, engr.

Tex., San Antonio—Bexar Co. ha plans prepared surfacing and draining mi. Highway 27—Bandera—Proposed P ect 217, involving 4.65 mi. road gr work, 3,600 cu.yd. borrow, 4,480 cu earth, 1,280 cu.yd. loose rock and 64 yd. solid rock excav., 48,150 sq.yd. bitu nous macadam, 6,100 cu.yd. gravel, 5 lb. reinforcing steel, 69.6 cu.yd. Class and 21.6 cu.yd. Class "B" concrete. Ab $61,199. C. E. Hoff, San Antonio, co. en

Tex., San Augustine—San Augustine having plans prepared grading, surfac and draining 20.9 mi. Highway 21, fr Nacogdoches Co. line to Sabine Co. li involving 37,800 cu.yd. borrow, 189,000 yd. unclassified earth and 2,000 cu.yd so rock excav., 48,369 cu.yd. gravel, 323,0 lb. structural steel, 436 cu.yd. Class and 500 cu.yd. Class "B" concrete, About $296,540. W. A. French, co. engr.

Tex., Sinton—San Patricio Co. receiv no bids Oct. 20, surfacing and buildi concrete culverts on 15.06 mi. Highway in Rd. Dist. 1, also draining, grading, sur facing and building bridge on 12.54 mi Highway 9 in Rd. Dist. 5. Work will b readvertised. A. C. Pancoast, Veeville co engr. Noted Oct. 14.

Okla., Weleetka—City plans to pave four blocks Main St. et al, 50-60 ft. wide, involving 7,200 sq.yd. 3 in. vertical fibre co concrete base, 2,650 lin.ft. concrete curbing and 2,800 cu.yd. earth excav. About $51,582. V. V. Long & Co., 605 W. D. Capitol Hill, Oklahoma City, engrs.

Colorado—State Highway Dept., Denver, rejected bids received Oct. 11, grading 3 mi. Norwood Rd., 16 ft. wide, Federal Aid Project 66, Montrose Co., cost $15,023; 6.8 mi. Kremmling Muddy Pass Rd., 16 ft wide, Federal Aid Project 75, Grand Co. $22,564; grading and gravel surfacing 3.2 mi. road from Wray to Schram, 16 ft. wide, Federal Aid Project 40, Yuma Co., $27,174; 3.97 mi. Craig-Mabelle Rd., 16 ft. wide, Federal Aid Project 107, Moffatt Co., $53,661; 4.8 mi. Florence-Cripple Creek Rd., 16 ft wide, Federal Aid Project 52, Teller Co., 21,480; grading and shale surfacing 1.8 mi Rifle-Meeker Rd., 16 ft. wide, Federal Aid Project 128, Rio Blanco Co., $15,766; paving 1.27 mi. Denver-Arvada Rd., 18 ft. wide, Federal Aid Project 120, Jefferson Co., $54,149. Work will be readvertised. Noted Oct 21.

Col., Denver—City plans to surface 1 mi. West 32nd Ave., 30 ft. wide, involving 16,300 sq.yd. asphalt. About $22,044. J. C. Hunter, city engr.

Idaho, Filer—City had plans prepared for paving various streets. L. C. Kelsey, Nampa, engr. About $136,038.

Arizona—State Highway Dept., Phoenix, received bids from McPeak, Burton & Brockman, 620 Security Bldg., constructing Sect. A, Phoenix-Glendale Highway, Federal Aid Project 33, involving 800 cu.yd. unclassified excav. in roadway, cost $1 per cu.yd., 37,400 sq.yd. plain concrete pavement, $1.90, 33 cu.yd. Class "A" concrete, $25, 26 cu.yd. Class "B" concrete in headwalls, $25, etc., amount of bid, $82,877, state furnished materials, $43,694, total cost, $126,572; Sect. B, Phoenix-Glendale Highway, Federal Aid Project 33, 700 cu.yd. unclassified excav. in roadway, $1, 7,650 cu.yd. unclassified borrow, $1, 37,160 sq.yd. plain concrete pavement, $2.05, etc., amount of bid $86,131, state furnished materials, $43,337, total cost, $129,469. Bids were also received for building 7.5226 mi. Sect. 1 Ray-Superior Highway, Federal Aid Project 28, involving (a) 87,990 cu.yd. excav. in roadway, (b) 11,050 cu.yd. excav. in borrow, (c) 4,736 cu.yd. per 100 ft. overhaul, (d) 134 cu.yd. Class "A" concrete in slab culverts, (i) 221 cu.yd. Class "B" concrete in arch culverts, (f) 268 cu.yd. Class "B" concrete in arch culverts, (e) 43 cu.yd. Class "A" concrete in slab culverts, (h) 158 cu.yd. Class "B" concrete in slab concrete, (i) 221 cu.yd. Class "B" concrete in pipe culvert headwalls, (j) 35,206 lb reinforcing steel, etc., from Davey & Jones, Superior, (a) $1.70 per cu.yd., (b) $1.25, (c) $0.03, (d) $25, (e) $25, (f) $23, (g) $25, (h) $23, (i) $23, (j) $78, amount of bid, $217,877, state furnished materials, $19,473, total cost, $237,349; De Waard & Cobham, Ray, (a) $1.75, (b) $1.15, (c) $0.10, (d) $30, (e) $30, (f) $29, (g) $30, (h) $29, (i) $30, (j) $8, amount of bid, $220,804, state furnished materials, $19,473, total cost, $240,277. Above bids rejected. Noted Sept. 30.

Arizona—State Highway Dept., Phoenix, rejected bids received Sept. 4, building 9 mi. concrete road between Tucson and Nogales, Pima Co. Federal Government has been asked to appropriate toward cost Noted Oct 7.

treets and Roads (Continued)

Que., Chateau Richer—Montmorency Co. ion receives bids building 15 mi. road long St. Lawrence River between St. Anne Beaupre and Malbaie. About $350,000. ept. Rds., Quebec, engrs.

Ont., Chesley—Town plans to build 7,000 q.yd. asphalt, bitulithic or concrete pavement. About $30,000. H. S. Sanderson, clk. Engineer not selected.

BIDS DESIRED

N. Y., Brooklyn—Until Nov. 10, by E. Riegelmann, boro. pres., regulating and repaving with permanent asphalt on 6 in. concrete foundation roadway of East 16th St. from Ditmas Ave. to point 138 ft. north of Newkirk Ave.; permanent Grade 1 granite on 6 in. concrete foundation roadway of Nostrand Ave. from Eastern Parkway to Empire Blvd., portion between tracks and rails to be of old granite blocks recut, roadway of Saratoga Ave. from Chauncey St. to Atlantic Ave., old granite blocks recut.

N. Y., S. I. St. George—Until Nov. 10, by C. D. Van Name, pres. Richmond Boro., building sidewalks on both sides of Richmond Terrace between Morningstar Rd. and John St., where not already done, together with all incidental work.

W. Va., St. Albans—Until Nov. 11, by City Council, paving 5th St. between 4th Ave. and Kanawha River, involving 1,200 cu.yd. excav., 2,444 sq.yd. paving, and 15,082 ft. curbing and guttering. L. A. Edwards, city clk. J. M. Oliver, city engr.

Ohio—Until Nov. 12, by State Highway Comn., Columbus, grading, building bridges and culverts and paving roads in following counties:

Ashland Co., Sect. "C" Ashland-Wooster Rd., 0.378 mi., bituminous concrete or brick, $27,656.

Belmont Co., Sect. "H-1" Barnesville-Woodsfield Rd., 1.778 mi. bituminous macadam, $68,836.

Sect. "I" Barnesville-Woodsfield Rd., 2.061 mi., bituminous macadam, $74,065.

Franklin Co., Sect. "P" Columbus-Sandusky Rd., 2.02 mi., brick, $380,490.

Hamilton Co., Sect. "X" Glendale-Milford Rd., 2.561 mi., concrete, $156,966.

Licking Co., Sect. "F" Newark-Mt. Vernon Rd., 5.039 mi., plain concrete or bituminous macadam, $248,314.

Montgomery Co., Sect. "Q" Dayton-Troy Rd. 1.707 mi., rein.-con. $96,519.

Sect. "P" Dayton-Troy Rd., 1.009 mi., rein.-con. or brick, $60,905.

Sect. "M" Van Wert-Ottawa Rd., 2.865 mi., Kentucky rock asphalt on waterbound base, $112,402.

Sect. "Ottoville" Van Wert-Ottawa Rd., 0.595 mi., Kentucky rock asphalt on waterbound base, $22,986.

Seneca Co., Sect. "D-1" Columbus-Sandusky Rd., 2.038 mi., bituminous macadam, $79,832.

Sect. "R" Lima-Sandusky Rd., 2.167 mi., bituminous macadam, $80,659.

Sect. "F-1" Bucyrus-Tiffin Rd., 0.884 mi., bituminous macadam, $32,580.

Sect. "G" Tiffin-New Haven Rd., 2.007 mi., bituminous macadam, $63,790.

Noble Co., Sect. "N" Cambridge-Caldwell Rd., 3.594 mi., grading and constructing drainage structures, $83,106.

Sect. "O" Cambridge-Caldwell Rd., 4.748 mi., grading and constructing drainage structures, $91,764.

Putnam Co., Sect. "A" Findlay-Delphos Rd., concrete block floor and waterbound macadam approaches of bridge, $2,603.

Lorain Co., Sect. "N" Twinsburg-Elyria Rd., concrete superstructure on bridge, $2,300.

Meigs Co., Sect. "O" Pomeroy-Athens Rd., 3.303 mi., grading, and constructing bridges and culverts, $91,763.

Fulton Co., Sect. "L-1" Archbold-Fayette Rd., 1.018 mi., grading and constructing bridges and culverts, $26,474.

Geauga Co., Sect. "V-2" and "W" Chagrin Falls-Greensville Rd., and Sect. "F" Warren-Burton Rd., 9.4 mi., grading roadway and constructing bridges and culverts, $85,695. Noted Sept. 9 and Oct. 14.

Michigan—Until Nov. 13, by State Highway Dept., at dist. office, Escanaba, grading and surfacing 5.971 mi. Federal Aid Project 3, portion of Sect. C, Baraga Co., 15 ft. wide, involving 7,299 cu.yd. gravel surface, 315.3 stations fine grading.

Mich., Crystal Falls—Until Nov. 16, by Bd. Rd. Comrs., Iron Co., grading and surfacing 7.182 mi. State Trunk Line Rd. 73-1, Sect. B, 16 ft. wide, involving 67,415 sq.yd. gravel and 379 stations fine grading.

Mich., Lake City—Until Nov. 16, by Bd. Rd. Comrs., Missaukee Co., grading, draining and surfacing 4.465 mi. State Trunk Line Rd. 55-1, 16 ft. wide, involving 12,718 cu.yd. earth excav., 41,913 sq.yd. gravel, 178 cu.yd. concrete in culverts, etc.

Minn., Mantorville—Until Nov. 15, by Dodge Co. building Federal Aid Project 173, involving 1 acre grubbing, 26,855 cu.yd. excav., 38,518 cu.yd. overhaul, etc.; Job 2002, State Rd. 6, involving 18 acres clearing and grubbing, 40,000 cu.yd. excav., etc. R. D. Jorgens, Hayfield, engr.

Neb., Chadron—Until Nov. 8, by City Council, improving Impvt. Dist. 2 and 3, involving 115,000 sq.yd. Warranite bitulithic, vitr. brick, asphalt or bituminous macadam paving and 15,000 ft. curbing and guttering. R. D. Salisbury Co., 1600 Downing St., Denver, Col., engr. Noted Oct. 7.

Missouri—Until Nov. 12, by State Highway Dept., Springfield, building 16.54 mi. Sect. A Oklahoma-St. Louis Rd., 24 ft. wide, Federal Aid Project 150, Greene Co., cost $111,268; 14.79 mi. Sect. B Oklahoma-St. Louis Rd., 24 ft. wide, Federal Aid Project 150, Greene Co., $110,256. Noted Sept. 16.

Missouri—Until Nov. 27, by State Highway Dept., Milan, building 1.4 mi. road east and west through Milan, Federal Aid Project S 20.15, Sullivan Co., involving 23,259 cu.yd. earth excav., 2,454 cu.yd. borrow, 23,550 cu.yd. per 100 ft. overhaul, 109.8 cu.yd. Class "B" and 1.2 cu.yd. Class "C" concrete masonry, 8,222 lb. reinforcing steel. About $24,250.

Tex., Boston—Until Nov. 15, by J. B. Lytal, judge Bowie Co., grading, surfacing and draining 4.05 mi. Highway 8 from Maud south to Sulphur River, involving 17,753 cu.yd. borrow excav., 6,340 cu.yd. gravel, 26,436 lb. reinforcing steel, 318.78 cu.yd. Class "A" and 29.48 cu.yd. Class "C" concrete, etc., cost $47,242; grading, surfacing and building rein.-con. bridge and culverts on 12.3 mi. Maud-Red Water Rd., 37 acres clearing and grubbing, 38,817 cu.yd borrow and 46,386 cu.yd. earth excav., 128,616 lb. reinforcing and 30,200 lb. structural steel, 19,240 cu.yd. gravel, 1,564.3 cu.yd. 1:2:4, 34.7 cu.yd. 1:2½:5 and 54 cu.yd. 1:3:6 concrete, etc., $165,155.

Tex., Ft. Worth—Until Nov. 11 (change of date), by H. L. Small, judge Tarrant Co., grading and draining 6.824 mi. Highway 1, Kutemans Cut-off Rd. R. V. Glenn, Court House, consult. engr. Noted Oct. 21.

Cal., San Diego—Until Nov. 8, by A. H. Wright, city clk., paving Lytton and Voltaire Sts., Chatsworth and Catalina Blvds. Noted June 24.

Que., Joliette—Until Nov. 21, by W. Malo, secy.treas., building 2½ mi. Cote du Village St. Paul de Joliette Rd. About $50,000.

Ontario—Until Nov. 16, by W. A. McLean, deputy minister of highways, Parliament Bldgs., Toronto, for earth work, concrete work and fencing, etc., at Windsor, Sandwich West Twp., Contr. 163; also building 3 mi. macadam roadway 20 ft. wide at Village of Iroquois Matilda Twp. Contr. 164. About $20,000 and $40,000 respectively.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Maine**—State Highway Dept., Capitol, Augusta let contract building 1½ mi. state road, Topsham, bituminous macadam, to E. J. Rourke, Augusta. About $45,000; cost plus percentage basis.

★**Maine**—State Highway Dept., Augusta, will gravel 1 mi. state highway, Sullivan, cost $7,000; ½ mi. South Thomaston, $6,000; 1 mi. Cherryfield, $7,000; 1 mi. St. George, $6,000; 1 mi. Gouldsboro, $7,000; 2 mi. Dedham, $20,000; 2 mi. Surry, $15,000; 2 mi. Augusta, $12,000; 2 mi. Sydney, 12,000; 2 mi. Ft. Kent, $15,000; ½ mi. Sandy Bay, $20,000 and 2 mi. Van Buren, $15,000. Work will be done by day labor.

★**Vt., South Hero**—State Highway Dept., Montpelier, let contract repairing highway bridge from here to Milton, to W. F. Loud & Sons Co., 94 Hall Pl., Quincy Mass. About $15,000.

★**Mass., Boston**—Pub. Wks. Dept., City Hall Annex, let contract paving Pub. Alley 909, granite block, to A. De Steffano & Bros., 8 Everett St., East Boston, $3,837; relaying and recutting Fargo St., South Boston, granite block, to B. E. Grant, 101 West Cedar St., Boston, $11,299.

★**Mass., Fall River**—City let contract for 1,200 sq.yd. Warrenite-bitulithic pavement (binder laid by city), 8,755 sq.yd. on macadam foundation and 1,200 sq.yd. on 6 in. concrete, to Warren Bros. Co., 142 Berkeley St., Boston.

New York—State Highway Comn., 55 Lancaster St., Albany, received bids Oct. 29, improving and completing (a) Rd. 1,419, Ulster Co., (b) Rd. 1,306, Westchester Co., (c) Rd. 5,652, Albany Co., (d) Rd. 5,656, Montgomery Co., (e) Rd. 1,545 and (f) Rd. 1,546, Oneida Co., (g) Rd. 5,659, Otsego Co., (h) Rd. 1,556, Seneca Co., (i) Rd. 5,661, Yates Co., (j) Rd. 1,471, Chautauqua Co., (h) Rd. 5,172-A, Erie Co., from S. B. Van Wagoner, Rondout, (a) $105,709, D. Schoentag, Saugerties, (a) $112,409; H. W. Roberts & Co., 610 Lansing St., Utica, (a) $112,871; J. R. Arborio, New Haven, Conn., (b) $44,584; Belmar Contg. Co., Troy, (c) $26,352; McCarthy & Rock, Winthrop, (c) $27,036; P. H. Murray, Troy, (c) $27,259; R. Hopkins, Troy, (d) $149,856, (j) $277,297; J. P. Dugan Co., Amsterdam, (d) $152,551; M. Vrooman, Gloversville, (d) $152,607; Lane Constr. Corp., 37 Colony St., Meriden, Conn., (e) $160,968, (f) $177,724, (i) $108,023; J. Walker, 19 Steuben St., Albany, (f) $180,783; I. L. Smith & Son, Lyon Falls, (e) $168,734, (f) $187,637; Stento & Serafini, Binghamton, (g) $52,329, (i) $114,706; Dale Eng. Co., Mann Bldg., Utica, (g) $52,400; A. J. Rockwood, Esperance, (g) $52,618; J. Conley, Ithaca, (h) $47,873; Greenfield Constr. Co., 89 Main St., Hornell, (i) $111,537; Forness & Fote, Olean, (j) $275,075; Wing & Munger, Tully, (j) $276,771; J. E. Pidgeon, Rochester, (k) $10,369; W. L. Love, Tonawanda, (k) $10,854; J. Johnson Constr. Co., Buffalo, (k) $11,157. Noted Oct. 21.

★**N. Y., Brooklyn**—E. Riegelmann, boro. pres., let contracts regulating and grading 86th St. from Stillwell to Gravesend Aves., to P. J. Donovan, 30 Church St., New York City, $25,524; regulating, grading curbing and laying sidewalks on 86th St. from Stillwell to Gravesend Aves., to Cassel Bros., $9,853; regulating and laying sidewalks in and adjacent to Borough Hall to F. Perticano, $11,660. Noted Oct. 21.

N. Y., Brooklyn—E. Riegelmann, boro. pres., received bids Oct. 27, for (a) relocating car tracks and rails on Bath Ave. from Bay 19th to 21st Sts., regulating and repaving with asphalt, (b) Bath Ave. from Bay 19th to 21st Sts., (c) Linden St. from Knickerbocker to Myrtle Aves., (d) 72nd St. from 3rd to 6th Aves., from C. L. Riker, 19 Cedar St., New York City, (a) $4,226; Eastern Constr. Co., 110 West 40th St., New York City, (a) $5,148; Consolidated Asphalt Co., 52 9th St. (b) $34,165, (d) $109,104; Sicilian Asphalt Co., 41 Park Row, New York City, (c) $21,417; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., (b) $36,451, (d) $108,265; Uvalde Asphalt Paving Co., 1 Bway., New York City, (b) $34,986, (c) $22,331, (d) $114,242. Noted Oct. 21.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., received bids Oct. 29, regulating and repaving (a) Cooper Ave. from Myrtle Ave. to Long Island R.R., (b) Shell Rd. from 20th St. to Jackson Ave., (c) Strong Causeway from Colonial St. to North Hempstead Turnpike, (d) Rockaway Blvd. from Eastern to 5th Aves., (e) Rockaway Blvd. from Norton's Creek to Cronin's Crossing, from Sicilian Asphalt Paving Co., Paidge Ave., Brooklyn, (a) $41,640; Consolidated Asphalt Paving Co., 52 9th Ave., Brooklyn, (a) $42,195 (b) $165,932, (c) $105,261; Uvalde Asphalt Paving Co., Metropolitan Ave., Brooklyn, (a) $43,100, (d) $75,250, (e) $89,475; Cleveland Trinidad Co., Flushing, (b) $182,885, (c) $102,127; W. P. McDonald, Port Richmond, (b) $147,635, (c) $94,300. Noted Oct. 21.

★**N. Y., S. I. St. George**—C. D. Van Name, pres. Richmond Boro., let contract repaving Richmond Turnpike, concrete, to C. Vanderbilt, Elizabeth St., West New Brighton, $108,940. Noted Oct. 28.

★**Pa., Pittsburgh** — City let contract grading and paving Carson St. from Smithfield to 7th Sts., to M. O'Herron & Co., South 1st and McKean Sts., $104,886. Noted Oct. 21.

Pa., Pittsburgh—City received bids Oct. 9, grading, paving, curbing, etc. Commercial St. from Blackhawk to Whipple Sts., (2) Pocono St. from Whipple to city line, (3) Homestead St. from Nevada to Pocono Sts., (4) Webster Ave. from Fullerton to Roberts Sts., from M. O'Herron Co., South 1st and McKean Sts., (1) $12,700, (2) $16,845, (3) $28,056; T. Cronin Co., 18th and Fox Sts., (1) $12,848, (2) $16,945, (3) $28,295; Booth & Flinn, Ltd., Forbes St., (1) $13,636, (2) $18,040, (3) $30,222; F. and F. Duilus, 40 Boundary St., (4) $42,628; J. H. McQuade Sons Co., Bakewell Bldg., (4) $52,389.

★**W. Va., Wellsburg**—Comrs. Brooke Co. let contract building 2 mi. road, Buffalo Dist., to Keely Constr. Co., Clarksburg, $56,220.

Streets and Roads (Continued)

★**North Carolina**—State Highway Comn., div. office, Kinston, let contracts improving 9.57 mi. road between Ayden and Greenville, Federal Aid Project 65, to Porter & Peck, Greenville, $87,315; 12 mi. road from Craven Co. line, via Reelsboro to Bayboro, Federal Aid Project 90, to Eagle Eng. Co., New Bern, $107,306; 26.11 mi. road between Pender-Duplin Co. line, via Burgaw to Cape Fear River, Federal Aid Project 81, to Porter & Boyd, Charlotte, $243,600. Noted Oct. 28.

★**N. C., Durham**—Comrs. Durham Co. let contract grading, draining and topsoiling 4.52 mi: Fish Dam Rd., to C. D. Rigsbee, Durham, $32,976.

★**N. C., Whiteville**—Comrs. Columbus Co. will sand clay surface and build concrete bridges on 18 mi. Charlotte-Wilmington Highway. Work will be done by day labor under supervision of R. C. Council, Wananish, ch. engr.

★**South Carolina**—State Highway Comn., Columbia, let contract building 2 mi. road from Greenville to Jones Store, north of here, concrete, to Slattery & Henry, Greenville. About $113,000. Noted Oct. 21.

★**Ala., Birmingham**—City let contract paving 16th St. from 8th to 13th Aves., involving 90 sq.yd. vitr. brick, 890 sq.yd. granite block, 86 lin.ft. granite curbing, 1,210 lin.ft. brick guttering, 900 sq.yd. concrete sidewalks, 9,550 sq.yd. bitulithic macadam, to Dunn Constr. Co., Chamber Commerce Bldg., $41,537; portions of 13th Ave. and 18th St., 270 lin.ft. stone curbing, 715 sq.yd. concrete guttering, 420 sq.yd. concrete sidewalk, 5,520 sq.yd. asphaltic concrete, etc., to H. N. Bowdry, Empire Bldg., $18,931.

★**La., New Orleans**—City let contract improving (1) Broad St. from Canal St. to New Basin Canal, (2) Sycamore St. from Audubon St., to Broadway, (3) South Clairborne Ave. from Canal St. to New Basin Canal, (4) Broad St. from New Basin Canal to Washington Ave., (5) South Clairborne Ave., from New Basin Canal to Napoleon Ave., (6) Magazine St. from Joseph St. to Washington Ave., (7) Calliope St. from Magnolia St. to Clairborne Ave., (8) Julia St. from St. Charles to Rampart Sts., (a) paving, (b) subsurface drains, to Craven & Lang, 1015 Hibernia Bank Bldg., (1a) $165,955, (2a) $3,601, (3a) $171,468, (4a) 101,696, (5a) $200,821, (6a) $277,971, (7a) $34,920, (8a) $23,529; M. Mitchell, 2646 Banks S., (1b) $69,830, (3b) $94,473; C. W. Kreher, 300 South Clarke St., (2b) $5,214, (7b) $11,641; E. Egans Sons, 4338 Canal St., (4b) $111,704, (6b) $181,644, (8b) $24,098; Crescent Contg. Co., Inc., (5b) $283,755.

★**O. Akron** City let contract paving South Maple St. from West Market to West Exchange Sts., sheet asphalt, to T. E. McShaffrey Constr. Co., $61,126. Noted July 22.

Wis., Milwaukee—Dept. Pub. Wks. received bids Oct. 20, paving with asphalt, (1) Becher St. from 2d to Windlake Aves., (2) Center St. from Sherman to 51st Sts., (3) Chambers St. from 35th St. west, paving with cement concrete, (4) 11th St. from Atkinson to Lake Sts., (5) 15th St. from Atkinson to Lake Sts., (6) 14th St. from Atkinson to Lake Sts., (7) Fratney St. from Keefe to Franklin Sts., (8) 9th St. from Graham St. to Somers Subdivision, (9) 10th St. from Graham to Lake Sts., (10) 12th St. from Atkinson to Lake Sts., (11) alley between 19th, 20th, Lloyd and Elm Sts., building cement sidewalks on (12) Hayes Ave. from 28th to 30th Aves., (13) 28th Ave. from Lincoln to Pabst Sts., (14) 29th Ave. from Pabst to Lincoln Sts., (15) Western Ave. from Pabst to Lincoln Sts., paving with sandstone, (16) Kinnickinnie Ave. from Mitchell to South Bay Sts., (17) 7th St. from Vilet to Galena Sts., from White Constr. Co., Pabst and 30th Aves., (1) $33,206; Badger Constr. Co., 97 Wisconsin St., (2) $71,493, (3) $2,199; Froemming Bros., 1326 Humboldt Ave., (4) $25,635, (7) $19,429, (8) $17,557; Kroening Constr. Co., Majestic Bldg., (5) $13,783, (6) $13,807, (9) $23,353, (10) $22,711, (16) $48,864; F. Schomann, 770 28th St., (12) $1,954, (13) $4,529, (14) $8,119, (15) $3,754; A. H. Prange, 228 Fowler St., (17) $15,156; Kehrein Constr. Co., 839 7th St., (11) $2,773.

★**Minn., Hibbing**—City let contract building 20,000 sq.yd. bitulithic pavement on concrete base, to E. W. Coons Co., Hibbing, $5.75 per sq.yd.

★**Kan., Newton**—City let contract paving 21,500 sq.yd. Main St. from 15th to 8th Sts., and 11,029 sq.yd. 6th St. from Sand Creek to Poplar St., involving 3,600 lin.ft. combined concrete curbing and guttering, to Kaw Paving Co., 609 N. E. Bldg., Topeka, $74,500 and $44,000 respectively.

★**Kan., Pittsburg**—Crawford Co. let contract grading and building concrete bridges on 14¼ mi. Pittsburg-Arma Rd., Federal Aid Project 39 and 40, 18 ft. wide, to Independent Constr. Co., Pittsburg, Joplin Steel Constr. Co., Joplin, Mo., and A. L. Cook, Ottawa, total $265,000; concrete paving and building bridge on 12 mi. Arma-Bourbon Rd., 18 ft. wide, to A. L. Cook, Ottawa, $200,000.

★**Mo., Keytesville**—Chariton Co. let contract grading, building culverts and wooden guard rail on 1.13 mi. Sect. 1 road from Mussell Fork Creek, westward, also .06 mi. Sect. 2 road from Chariton River, southeast, to C. Parker, Keytesville, $36,908. Noted Oct. 28, under "Missouri."

★**Tex., Dallas**—City let contract paving 4,000 ft. Martin St. from McKinney to Bryan Sts., involving 4,000 lin.ft. combined concrete curb and gutter, 20,000 sq.yd. bituminous macadam on concrete base, to Texas Bitulithic Co., 1101-6 Praetorian Bldg., $60,242; lowering grade of Maple Ave. and Fairmont St. under Missouri, Kansas & Texas Ry., involving 10,000 cu.yd. earth excav. and 25,000 cu.yd. concrete, to Klein Bros., Junius and Walton Sts., and Vilbig Bros., 1709 Jackson St., $157,417.

★**Tex., Dallas**—Property owners of Highland Park let contract surfacing 1 mi. Preston Rd. from city limits to Beverly Drive, involving 20,000 sq.yd. asphalt on concrete base, to Texas Bitulithic Co., 1101-6 Praetorian Bldg. About $100,000. Noted July 1.

Tex., El Paso—El Paso Co. received bids grading and draining 12.6 mi. Highway 1 Fabens Rd., from Lee-Moor Contg. Co., Two Republics Bldg., $46,228; J. C. Wright, 3711 Bisbee St., 47,243; El Paso Co., c/o J. B. McClintock, co. judge, $47,280. Work involves 486 cu.yd. Class "A" concrete, 32,418 lb. reinforcing steel, 68,650 cu.yd. embankment rolling, 89,869 cu.yd. overhaul and 104,754 cu.yd. earth excav. Noted June 3.

★**Tex., Jourdanton**—Atascosa Co. let contract topping with trap rock cover and 1 in. rock asphalt, 13.5 mi. Highway 9, Puget Sound-Gulf Highway, involving 118,788 sq. yd. bituminous macadam, to Haden & Austin, 727 Kress Bldg, Houston, $74,154; including 10% for enginering and contingencies.

★**New Mexico**—State Highway Dept., Capitol Bldg., Santa Fe, let contract building 15.157 mi. road between Magdalena and Datil, Federal Aid Project 42, Socorro Co., to F. Croxton, Guymon, Okla., $50,707, (exclusive of 10% for engineering and contingencies). Noted Sept. 30.

★**Arizona**—State Highway Dept., Phoenix, let contract building Sect. 2, Douglas-Rodeo Highway, Federal Aid Project 38, 20 ft. wide, Cochise Co., to D. La Roe, Palestine, Tex., $130,467. Noted Sept. 30.

★**Arizona**—State Highway Dept., Phoenix, let contract surfacing 3.718 mi. Sect. 3 Holbrook-St. Johns Highway (Petrified Forest), involving 6,543 cu.yd. surfacing, to J. P. Richards, St. Joseph, $10,409.

★**Wash., Prosser**—City let contract grading and paving 3 mi. various streets, to Yakima Paving Co., Yakima, $114,000.

Wash., Seattle—City received bids Oct. 15, building concrete walks on Westlake Ave. et al, involving 8,286 cu.yd. earth excav. and 8,260 sq.yd. concrete walks, from D. H. Traphagen, Walker Bldg., $29,001, F. McLellan, 1720 16th Ave. N., $29,867, Hansen & Hauge, Green Bldg., $30,541; paving, filling, etc., Seattle Blvd., et al, involving 10,720 sq.yd. vitr. brick, 10,760 sq.yd. concrete and 65,000 cu.yd. (a) clay pipe, (b) concrete pipe, from S. A. Moceri, Alaska Bldg., (a) $190,981 (b) $190,981, Kaiser Paving Co., 304 West 36th St., (a) $197,196, (b) $197,196, Stewart Constr. Co., Amer. Bank Bldg., (a) $202,743, (b) $202,543.

Cal., Santa Ana—Orange Co. let contract improving Tustin Ave., Wanda Rd., Lincoln St and Center Drive, to B. R. Ford, Santa Ana, $83,772.

★**Ont., Brampton**—City let contract for 11,177 sq.yd. Warrenite bithulithic pavement, to Warren Bituminous Paving Co., McKinnon Bldg., Toronto.

★**Ont., Port Stanley**—Town Council let contract building 1 mi. tarvia pavement and cement sidewalks, to A. E. Ponsford, 605 Talbot St., St. Thomas. About $25,000.

★**Ont., Toronto**—City let contract for 7,712 sq.yd. Warrenite-bitulithic pavement on concrete foundation, to Warren Bituminous Paving Co., McKinnon Bldg.

Railways

PROPOSED WORK

North Carolina—State Building C[illegible], Raleigh, plans to build 1¼ mi. standard road in city of Chapel Hill from de[illegible] Southern Ry. to University Power [illegible] About $50,000. H. A. Underwood, c/o [illegible] Bldg. Comn., ch. engr.

North Carolina—North Carolina [illegible] R.R. Co. plans to build 75 mi. standard gauge railroad from Charlotte to Wi[illegible] Salem. A. S. Mowry, c/o Simmons C[illegible] Co., Charlotte, ch. engr.

North Carolina—New Holland, Hig[illegible] port & Mt. Vernon R.R. Co., New Holland, recently chartered plans to build [illegible] standard gauge railroad from New Holland to Wenona.

Excavation and Dredging

PROPOSED WORK

Wis., Burnett—Drain—Burnett Farm [illegible] D. 1, c/o L. S. Keeley, secy., Mayvill[illegible] having plans prepared by L. M. Schinde[illegible] engr., 721 Clark St., Appleton, for 37,000 [illegible] large tile drain, here. About $50,000.

Wash., Seattle—Dredging Bd. Pub. Wks. soon receives bids dredging east slip of Pier A, Smiths Cove, for filling Elliott Ave., involving 200,000 cu.yd. dry earth excav. A. H. Dimock, Seattle, engr.

Cal., San Diego—Irrigation—H. R. Peckham applied to State Water Comn., Sacramento, for permission to use water from Pauma Creek for irrigation purposes. Plans include concrete dam and 4 mi. ditch. About $100,000.

BIDS DESIRED

Minn., Jackson—Until Nov. 9, by P. D. McKellar and Jackson Co., building Judicial Ditch 45, involving 82,400 ft. 6-28 in. tile, 2,711 cu.yd. open work, etc., cost $71,000; Ditch 13, 12,000 ft. 6-16 in. tile, etc., $5,933; Ditch 74, 61,800 ft. 6-30 in. tile, etc., $54,118; Ditch 75, 68,500 ft. 6-36 in. tile, 2,266 cu.yd. open work, etc. $71,863.

PRICES AND CONTRACTS AWARDED

(★ Indicates Award of Contract)

★**N. Y., New York**—Dredging—M. Hulbert, comr. Docks, Pier "A," ft. of Battery Pl., let contract dredging piers at foot of Stanton, East 5th, East 20th, East 25th and West 35th Sts., to Morris & Cummings Dredging Co., 17 State St., $111,685. Noted Oct. 21.

★**Ia., Atlantic**—Drainage—Cass Co. let contract building 7 mi. drainage project in Bear Creek and Noble Twps., involving 388,000 cu.yd. excav., to Callahan-Walker Constr. Co., 222 Bee Bldg., Omaha, Neb. About $81,000. Noted Sept. 30.

★**Ia., Red Oak**—Ditch—Bd. Supervs. Montgomery Co. let contract building 5.5 mi. open ditch in D.D. 5, to F. C. Scherer, Red Oak. Noted Oct. 7.

Industrial Works

PROPOSED WORK

N. H., Tilton—Genl. Optical Co., 256 Washington St., Mt. Vernon, N. Y., having plans prepared by Woodwell & Resler, engrs. and archts., 501 5th Ave., New York City, for rein.-con., brick and steel addition to plant, rein.-con. flooring, concrete foundation. About $50,000.

Mass., Norwood—G. M. Lepper, Washington St., plans to build brick and concrete garage. About $50,000. Architect not selected.

Mass., Palmer—Thorndike Co. plans to build 3 story, 120 x 300 ft. brick and steel dye house. About $350,000. Leary & Walker, Times Bldg., New Bedford, engrs.

Mass., Worcester—Conroy Motor Co., 671 Main St., rejected bids and will have revised plans prepared for 2 story, 87 x 145 ft. concrete, brick and steel garage, on Murray Ave. and Wellington St. About $100,000. A. F. Gray, 53 State St., Boston, archt. Noted Oct. 7.

Conn., Portland—Wilcox Crittenden & Co., Inc., 8 South Main St., Middletown, plans to build 1 story, rein.-con. foundry, here. Architect not selected.

N. J., Newark—New York Auto Top Co., 262 Halsey St., having plans prepared by Bachoff, Jones & Cook, archts., 9 Clinton St., for 2 story, 26 x 118 ft., rein.-con. factory, on Astor and Broad Sts. About $50,000.

Pa., Williamsburg—B. W. Mosteller, East Liberty, purchased 3 story, 50 x 104 ft. brick building, rein.-con. flooring, on 4th St., here, and plans to rebuild and equip same as ice cream plant. About $75,000

dustrial Works (Continued)

Ia., Spirit Lake—Western Electric Co., plans to rebuild plant. About $100,000.

N. C., Greensboro—Peidmont Ice & Coal Co. plans to build ice plant. About $75,000.

N. C., Newton—Newton Ice & Fuel Co. plans to remodel ice plant., etc. About $50,000. J. M. Wagoner, Newton, engr.

N. C., Red Springs—City plans to build electric lighting system. About $50,000. G. C. White, Durham, engr.

N. C., Wilmington—Fisheries Products Co. plan s to build fertilizer plant. About $1,000,000.

N. C., Wilmington—Simmons Mfg. Co., Goldsboro, plans to build factory, here. About $200,000. Architect not selected.

Fla., Jacksonville—Wilson-Toomer Fertilizer Co., Viaduct, plans to rebuild plant. About $1,000,000. N. M. G. Prange, mgr.

La., New Orleans—G. B. Matthews & Son, 420 South Front St., plans to build 3 story, concrete and steel factory. About $300,000. Architect not selected.

O., Cleveland—J. A. C. Broom & Brush Co., 2339 East 89th St., plans to build 2 story, 50 x 100 ft., brick and steel factory, brick foundation. About $40,000. L. H. Joy, mgr. Architect not selected.

O., Cleveland—Malay Rubber Co., c/o C. Blatz, 1035 Guardian Bldg., plans to build 3 story factory, concrete, brick and steel, rein.-con. flooring, concrete foundation, at East 172nd St. and St. Clair Ave. About $100,000. Architect not selected.

O., Hamilton—Champion Coated Paper Co. plans to build fertilizer plant. About ft., rein.-con., brick and steel warehouse, rein.-con. flooring, concrete foundation, on west side. About $100,000. F. H. Smith, Inc., Reibold Bldg., Dayton, archt.

O., Youngstown—Reserve Iron & Steel Co. plans to build 2 blast furnaces and 2,000,000 ton puddling plant. About $1,000,000.

Mich., Brighton—Grove Motor Co. plans to build 1 story, 80 x 200 ft., rein.-con., brick and steel factory, rein.-con. flooring, concrete foundation. About $50,000. W. C. Boyer, Brighton, archt.

Wis., Drummond — See "Industrial Works."

Tex., San Antonio—Southern Ice & Cold Storage Co. plans to build 20,000 ton ice storage warehouse. About $250,000. M. Postlewaite, mgr.

Col., Greeley—Colorado Milling & Elevator Co., 1441 7th St., Denver, having plans prepared for 600 bbl. flour mill, concrete and steel, concrete foundation. About $350,000. Private plans.

Ont., London—Harris Abattoir Co., Union Stock Yards, Toronto, plans to build rein.-con. and brick abattoir on Talbot St. About $100,000. Architect not selected.

Ont., Toronto—Crouse Hinds Co., and Harvey-Hubbell Co., 7 Labatt Ave., and Hubbell Mack Machine Screws Co., plans to build 3 story, concrete, brick and steel factory, concrete flooring and foundation, on Coxwell Ave. About $500,000.

BIDS DESIRED

Mass., Worcester—B. E. Geckler, archt., 335 St. James Ave., Springfield, receiving bids building 3 story, 60 x 120 ft. ice cream plant, concrete and steel, rein.-con. flooring, concrete foundation, on Shrewsbury St., here, for Tait Bros., Cass St., Springfield. About $75,000.

N. Y., Dunkirk—Thomas Flexible Coupling Co. receiving bids building 1 story, 40 x 200 ft., concrete, brick and steel factory, brick and concrete foundation. About $50,000. Private plans.

N. Y., New York—Until Nov. 11, by G. A. Whalen, comr. Plant & Structures, Municipal Bldg., constructing housing stations for Dept. Street Cleaning, on Canal, West and Springs Sts., 17th St. and Ave. C, and on Rivington, Tompkins and Mangin Sts.

Pa., Cresson—Penn-Cress Ice Cream Co. receiving bids building 2 story, 48 x 91 ft., brick and steel plant, rein.-con. flooring, on Park Ave. About $50,000. Mc ormick Co., Century Bldg., Pittsburgh, archt. Noted Oct. 21.

Pa., Phila.—Until Nov. 9, by Clark & Dudnick, archts. and engrs., Drexel Bldg., constructing 1 story, 50 x 80 ft. and 50 x 98 ft. foundry and woodworking shop, brick, steel and iron, on 42nd and Walnut Sts. Owner's name withheld.

O., Cleveland—**H. W. Morgan, 637 Bway.**, receiving bids building 2 story, 50 x 110 ft., brick and steel warehouse, brick foundation, at 1108 Central Ave. About $75,000. J. F. Steffins, Citizens Bldg., archt.

O., Cleveland Heights (Warrensville P. O.)—Until Nov. 24, by Bd. Educ., building 2 story, 50 x 67 ft. concrete, brick and steel power plant, rein.-con. flooring, concrete foundation, on Lee Rd. About $100,000. F. C. Warner, Hippodrome Annex Bldg., archt. L. A. Quayle, 1455 West 98th St., Cleveland, engr. Noted Aug. 26.

Ind., Elkhart—Wawasee Tire & Rubber Co. receiving bids building 4 story, 175 x 175 ft., rein.-con., brick and steel factory, rein.con. flooring. About $500,000. R. L. Simmons, Elkhart, archt.

Ill., Chicago—New Way Laundry, c/o Ronneberg, Pierce & Hauber, archts., 10 South La Salle St., receiving bids building 2 story, 64 x 152 ft., brick, rein.-con. and terra cotta laundry, rein.-con. flooring, concrete foundation, on Montrose and Francisco Sts. Abut $100,000.

Ill., Chicago—Levy & Klein, archts., 111 West Washington St., receiving bids building 1 story, 75 x 150 ft., brick and timber addition to garage, concrete foundation, at 3847 Wabash Ave., for U. S. Auto Supply Co., 3845 South Wabash Ave. About $45,000.

Wis., Fond du Lac—Sheyboygan Dairy Products Co., 936 North Water St., receiving bids building 2 story, 112 x 160 ft., brick, rein.-con. and steel factory, brick foundation, on West Division St. About $100,000. B. E. Mehner, 6 East Division St., archt. Noted Oct. 21.

Kan., Ottawa—See "Waterworks."

Tex., Waco—Bd. Trustees Methodist Orphanage, c/o E. McCullough, Herring Ave., receiving bids building dairy barn and heating plant. About $45,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Conn., Hartford**—Bd. Contract & Supply let contract building 2 story, 50 x 125 ft. concrete and brick machine shop, rein.-con. flooring, concrete foundation, on John St., to T. F. Garrity, 32 East Raymond St., $76,729. Noted Oct. 27.

★**Conn., Hartford**—New Haven Dairy Co., 201 Hazel St., New Haven, let contract building 3 story, 150 x 210 ft. concrete and brick plant, rein.-con. flooring, concrete foundation, on Walnut St., to M. S. Gibbud Co., 730 Chapel St., New Haven. About $125,000.

★**Conn., Hartford**—Travelers Insurance Co., 700 Main St., let contract building concrete, brick and steel printing plant, rein.-con. flooring, concrete foundation, on Albany Ave., to M. Eidlitz, 30 East 42nd St., New York City. About $1,000,000. Noted Oct. 21.

★**Conn., New Haven**—New Haven Dairy Co., 201 Hazel St., let contract building 2 story, 70 x 150 ft. concrete, brick and steel garage, rein.-con. flooring, concrete foundation, to M. J. Gibbud Co., 730 Chapel St. About $80,000.

★**N. Y., Brooklyn** — Dept. Plants & Structures, Municipal Bldg., New York City, let contract constructing housing station for Dept. Street Cleaning, on Water, Dock and Front Sts., to P. T. Cox Contg. Co., 154 Nassau St., New York City, $263,700. Noted Sept. 23.

★**N. Y., Brooklyn**—Grand Corrugated Paper Co., 30 Crosby St., New York City, let contract altering rein.-con., brick and steel factory, rein.-con. flooring, on 32nd St., here, to Gabler Constr. Co., 402 Hudson St., New York City. Noted Oct. 7.

★**N. Y., Brooklyn**—H. Jenkins, 550 73rd St., will build 1 story, 100 x 150 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on 39th St. About $45,000. Work will be done by day labor.

★**N. Y., Brooklyn**—Linn-Coop Corp., c/o B. Driesler, archt. and engr., 153 Remsen St., will build 1 story, 100 x 200 ft., rein.-con., brick and steel garage, rein.-con. flooring, concrete foundation, on 35th St. near 4th Ave. About $75,000. Work will be done by day labor.

★**N. Y., Brooklyn**—F. Richards, 3337 Atlantic Ave., will build 1 story, 95 x 100 ft., brick and steel garage, rein.-con. flooring, concrete foundation. About $90,000. Work will be done by day labor.

★**N. Y., New York**—Dept. Plant & Structures, Municipal Bldg., let contract constructing housing station for Dept. Street Cleaning, on Henry, Madison and Birmingham Sts., to Wolfman & Greenbaum, 1043 Pacific St., Brooklyn. About $112,000. Noted Oct. 28.

★**N. Y., New York**—E. Stevens, c o Dunnigan & Crumley, archt and engr., 394 East 150th St., will build 1 story, 50 x 170 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on Walton Ave. About $45,000. Work will be done by day labor.

N. Y., S. I., West New Brighton—Dept. Pub. Welfare, Municipal Bldg., New York City, received bids Oct. 29, constructing addition to boiler house, at Sea View Hospital, here, from G. Colon Co., 81 East 125th St., New York City, $41,513; M. McDonald, $49,000. Noted Oct. 21.

★**Pa., Phila.**—J. J. Greenberg, Morris Bldg., let contract altering 4 story, brick and steel factory, on 23rd and Locust Sts., to Wark & Co., 1737 Filbert St. About $50,000. Cadillac Motor Co., lessee.

★**Pa., Phila.**—Harbisons Dairies, Front and Diamond Sts., let contract building 2 story, 80 x 196 ft., dairy plant and boiler house, brick, on Hunting Park and Torresdale St., to Barclay-White & Co., 1713 Sansom St. About $240,000.

★**W. Va., Huntington** — International Nickel Co., 43 Exch. Pl., New York City, will build rolling mill plant, rein.-con. and steel, rein.-con. flooring, concrete foundation, here. About $3,000,000. Work will be done by day labor under supervision of W. L. Wotherspoon, archt. and engr., 43 Exch. Pl., New York City.

★**O., Cleveland**—Folding Box Co., 1900 West 3rd St., let contract building 1 story, 100 x 250 ft., brick and steel factory to Bolton-Pratt Constr. Co., Columbia Bldg. About $100,000. Noted Oct. 28.

★**O., Cleveland**—Globe Motors Co., c/o C. H. Davies, 1132 Guardian Bldg., let contract building 1 story, 100 x 500 ft., brick and steel factory, brick foundation, on Chardon Rd., to S. W. Emerson Co., 1900 Euclid Ave. About $300,000. Noted Sept. 30.

★**O., Cleveland**—H. O'Neil, 1330 Oregon Ave., let contract building 1 story, 60 x 120 ft., brick and steel garage, brick foundation, on Oregon Ave., to V. Piscobo, Murray Hill Rd. About $50,000.

★**O., Sidney**—Wagner Mfg. Co. let contract building 1 story, 80 x 180 ft., brick and steel foundry, brick foundation, to Dannis-Hunt Co., 1st and Webb Sts. About $75,000. Noted Oct. 7.

★**Ind., Richmond**—Richmond Baking Co. let contract building 5 story, 50 x 125 ft., bakery, rein.-con. and steel, to L. Colvin, 4140 Ruckle St., Indianapolis. About $175,000; cost plus percentage basis.

★**Wis., Fond du Lac**—P. Gerhard Baking Co., 22 North Main St., let contract building 2 story bakery, to Hutter Constr. Co., 128-136 Western Ave. About $60,000. Noted April 20.

★**Minn., Fridley**—Walsh Tie Co., 954 McKnight Bldg., Minneapolis, let general contract building creosoting plant, including 1 story office building, factory, powderhouse, bunk houses, etc., to C. F. Haglin & Sons, 226 Lumber Exch., Minneapolis; grading and excavating site, to J. L. Shiely Co., 6th and St. Peter Sts., St. Paul. Total cost, $300,000.

★**Kan., Pittsburg**—F. C. Werren and M. E. Coffey let contract building 2 and 3 story, 100 x 108 ft. garage on 4th and Locust Sts., to J. D. Stalker, 318 North Bway. About $85,000.

★**Tex., Dallas**—Lincoln Paint & Color Co., Detroit, Mich., let contract building 2 story, 140 x 180 ft., brick factory, concrete flooring, on Kentucky St. and Ash Lane, here, to E. R. Sessums & Sons, Detroit. About $66,500.

Wash., Seattle—School Bd. let contract constructing 3 story, 126 x 250 ft. concrete building to hous- warehouse, shops, etc., to Puget Sound Bridge & Dredging Co., Central Bldg., $247,380.

★**Cal., Anaheim**—Anaheim Citrus Fruit Assn. will build 1 story, 100 x 132 ft. packing house, concrete and tile. About $75,000. Work will be done by day labor.

SEWERS

Buildings

PROPOSED WORK

N. H., Berlin—Bank—Berlin Natl. Bank, Main St., plans to build concrete, steel and stone. About $75,000. Architect not selected.

Mass., Attleboro—Town Hall—Town plans to build stone and steel memorial. About $200,000. Kilham & Hopkins, 9 Park St., Boston, archts.

Buildings (Continued)

Mass., Roxbury (Boston P. O.)—Theatre—D. H. Brand, 16 Piedmont St., plans to build 2 story, concrete, brick and steel. About $150,000. Funk & Wilcox Co., 1148 Old South Bldg., Boston, archts.

Mass., Springfield—Temple—Masonic Hall Assn., Masonic Bldg., having plans prepared for rein.-con. and brick, on State St. About $750,000. E. A. Bladgett, pres. Architect not announced.

Mass., Watertown (Boston P. O.)—High School—Town plans to build 3 story, concrete, brick and steel, on Waverly St. About $250,000. Ashton & Huntress, Essex Bldg., Lawrence, archts.

Conn., Beacon Falls—School—Town plans to build 2 story, brick and steel. About $75,000. Architect not selected.

Conn., Bridgeport—Bank—Newfield Bank & Trust Co., 1200 Seaview Ave., plans to build 1 story, stone, brick and steel, on Stratford and Union Aves. About $75,000. Architect not selected.

Conn., Danbury — Hospital — Danbury Hospital, Locust Ave., plans to build 3 story, rein.-con. and brick addition. About $300,000. Lord & Hewett, 345 5th Ave., New York City, archts.

Conn., Hartford — Office — Connecticut Genl. Life Insurance Co., 64 Pearl St., having plans prepared by J. G. Rogers, archt. and engr., 367 Lexington Ave., New York City, for 6 story, brick and stone, stone foundation, on Elm St.

Conn., New Britain—Bank—Commercial Trust Co., 274 Main St., plans to build brick, stone and steel, on West Main and Washington Sts. About $250,000. A. Hopkins, 101 Park Ave., New York City, archt.

Conn., New Canaan—Theatre—Colonial Theatre, Main St., plans to build 3 story, 60 x 100 ft., concrete, brick and steel. About $100,000. Architect not selected.

Conn., Norwich—High School—Bd. Educ. plans to build 3 story high school. About $300,000. Architect not selected.

Conn., Stafford Springs—Theatre and Business—. H. Hall, South Willington, plans to build 3 story, rein.-con. and brick, on Park and Mitchell Sts. About $125,000. A. R. Sharpe, 125 Chestnut St., Willimantic, archt.

Conn., Wallingford—Bank—First Natl. Bank, South Main St., having plans prepared by P. W. Foote, archt., 185 Church St., New Haven, for 1 story, concrete, brick and steel, on Main and Center Sts. About $100,000.

Conn., Waterbury—Church—Immaculate Conception Roman Catholic Church, 97 East Main St., had plans prepared by J. A. Jackson, archt., 1123 Bway., New York City, for 1 story, brick and steel. About $200,000.

Conn., Waterbury—School—St. Margarets Schools, Grove and Cook Sts., plans to build 3 story, brick and steel addition. About $100,000.

N. Y., Albany—Capitol—State Bd. Estimates soon receives bids remodeling room; to be used for placing flags carried in the World War. About $300,000. L. F. Pilcher, state archt.

N. Y., Bath—School—Bd. Educ. had plans prepared by Lewinsohn & Shubert, archts. and engrs., 366 5th Ave., New York City, for brick and stone, brick foundation, here. About $150,000.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York City, having plans prepared by C. B. J. Snyder, archt. and engr., Municipal Bldg., New York City, for P. S. 54, 5 story, 125 x 197 ft., brick, steel and stone, concrete foundation, on Sandford St. near De Kalb Ave., here. About $750,000.

N. Y., New York—Hospital—Missionary Sisters of Sacred Heart, c/o St. Lawrence Hospital, 457 West 163rd St., plan to build 6 story, 105 x 228 x 244 ft., brick and stone, brick foundation, on Edgecombe Ave. between 163rd and 164th Sts. Architect not selected.

N. Y., New York—Institution—New York Institution for Education of Blind, 9th Ave. and 33rd St., plans to construct seven 2½ story, brick and stone buildings, brick foundations, on Williamsbridge Rd., Bronxwood Ave., Bronx and Pelham Parkways. McKim, Mead & White, 101 Park Ave., archts. and engrs.

N. J., Atlantic City—Fire House—City opens bids about Nov. 6, building 3 story, brick and stone, brick foundation. About $250,000.

Pa., Altoona—Cathedral—J. J. McCort, bishop of Catholic Diocese, 1211 13th St., plans to build 2 story, 100 x 150 ft., stone, rein.-con. and steel, on 12th Ave. About $1,000,000. Architect not selected.

Pa., Altoona—Church—Broad Ave. Methodist Church plans campaign to raise $75,000 to build 2 story, 100 x 120 ft., brick and steel. Address J. K. Knisley. Architect not selected.

Pa., Altoona—Lodge—Knights of Columbus, Council No. 551, 1500 12th Ave., plans to build 3 story, 100 x 100 ft., rein.-con., brick and steel, on 12th Ave. and 15th St. About $150,000. Architect not selected.

Pa., Clifton Heights—School—Bd. Educ. having plans prepared by Folsom & Stanton, archts. and engrs., 1328 Walnut St., Phila., for 2 story, 30 x 100 ft., brick and stone. About $100,000.

Pa., Franklin — Bank — Franklin Exch. Natl. Bank soon receives bids building 3 story, 100 x 100 ft. addition, brick and stone, brick foundation. W. L. Stoddart, 9 East 40th St., New York City, archt.

Pa., Phila.—Hotel and Stores—Hotel Walton Co., Broad and Locust Sts., having plans prepared by A. M. Gray, archt. and engr., 1402 Bway., New York City, for 20 story, 70 x 130 ft., brick, steel and stone, concrete foundation, on Broad St., here. About $1,700,000.

Md., Baltimore—Synagogue—S. Russell, archt., 111 East Lexington St., opens bids about Nov. 15, building 1 and 2 story, 70 x 105 ft., concrete, granite and brick, cement flooring, concrete foundation, on Madison Ave. near Whitelock St., for Mishken Israel Congregation. About $150,000.

Md., Cambridge — Theatre — Cambridge Amusement Co., Fidelity Bldg., Baltimore, plans to build 2 story, concrete, brick and steel, here. About $100,000. H. W. Webb, Pres. O. B. Wight, 1101 Munsey Bldg., Baltimore, archt.

Va., Winchester — School — Estate of Judge Handley, c/o F. E. Clark, having plans prepared by W. R. McCornack, archt., East 6th St. and Rockwell Ave., Cleveland, for 3 story, concrete, brick and steel, rein.-con. flooring, concrete foundation. About $1,000,000. S. H. Edwards, associated archt.

Fla., Clearwater—Theater—J. S. Taylor having plans prepared by L. Avery, archt., Clearwater, for 2 story, 74 x 175 ft. rein.-con. About $75,000.

Fla., Ft. Myers—Hotel—P. Schutt and associates, Bradford Hotel, having plans prepared by F. J. Kennard, archt., Amer. Bank Bldg., Tampa, for 5 story hotel with 3 wings, to contain 220 rooms, rein.-con., brick and steel, rein.-con. flooring, on McGregor Blvd., here. Cost between $400,000 and $500,000.

Fla., Pensacola — Exchange — Southern Bell Telephone Co., 14 East Romana St., plans to build new exchange. Cost including equipment, about $200,000. J. T. Peele, mgr.

Ala., Birmingham — Home, etc. — Loyal Order Moose receives bids about Jan. 1 constructing "City of White Cottages" for aged, including administration buildings, etc. Above project when completed (on 5 year program) will cost $1,000,000. J. J. Davis, Farmers' Bank Bldg., Pittsburgh, Pa., Director General.

Tenn., Kingsport — Housing — Kingsport Farms Co., Inc., having plans prepared by Litchfield & Rogers, engrs., 2 East 41st St., New York City, for several rein.-con., brick and steel houses, brick foundations. About $100,000.

O., Cincinnati — Club — Business Men's Club, 9th and Race Sts., having plans prepared by S. Hannaford & Sons, archts., 6th and 9th Sts., for 9 story, 150 x 200 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, on 8th and Race Sts. About $1,000,000.

O., Cleveland—Bank and Commercial—Garfield Savings Bank Co., c/o J. M. O'Dell, 322 Euclid Ave., plans to build 2 story, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on St. Clair Ave. About $75,000. Architect's name withheld.

O., Cleveland—Commercial—S. Barker Son Co., 2034 East 4th St., plans to build 4 story, 50 x 120 ft. addition, concrete, brick and steel, rein.-con. flooring, concrete foundation, on Prospect Ave. near East 8th St. About $200,000. C. E. Tousley, 4500 Euclid Ave., archt.

O., Cleveland—Commercial and [illegible] Cleveland Democratic Club, c/o [illegible] Federal Bldg., plans to build 3 story, [illegible] crete, brick and steel, rein.-con. [illegible] concrete foundation, at 1393 East [illegible] About $100,000. W. S. Longee, M[illegible] Bldg., archt.

O., Elyria—Commercial and Theat[illegible] Zadaris having plans prepared by [illegible] Janowitz, archt., Permanent Bldg., [illegible] land, for 1 story, 45 x 162 ft., rein.-[illegible] brick and steel, rein.-con. flooring, [illegible] and concrete foundation, on Broad[illegible] About $100,000.

O., Lakewood (Cleveland P. O.)—Sch[illegible] Bd. Educ., Warren Rd., plans to [illegible] Roosevelt School, 2 story, 12 room [illegible] con., brick and steel, rein.-con floo[illegible] brick and concrete foundation. A[illegible] $250,000. C. W. Hopkinson, 900 Rose B[illegible] archt.

Ind., Decatur—Amphitheatre—F. Rep[illegible] having plans prepared by O. Hoffm[illegible] archt., Decatur, for 2 story, 60 x 150 [illegible] rein.-con., brick and steel, rein.-con. floo[illegible] ing. About $100,000.

Ind., Ft. Wayne—High School—Bd. Trustees had plans prepared by Griffith & Goodrich, archts., Physicians Defense Bldg., for 3 story, 211 x 230 ft., rein.-con. and brick, on Calhoun St. About $1,000,000. See item under "Prices and Contracts Awarded."

Mich., Cadillac—Hospital—Mercy Hospital having plans prepared by E. Brielmaier & Sons, archts. and engrs., University Bldg., Milwaukee, for 3 story, rein.-con. and brick addition, rein.-con flooring, concrete foundation. About $100,000.

Mich., Grand Rapids—Church—E. Brielmaier & Son, archts., University Bldg., Milwaukee, preparing preliminary plans for brick, concrete and steel, concrete flooring and foundation. About $150,000. Owners name withheld.

Ill., Chicago—Hall and Store—E. L. Steif, archt., 30 North La Salle St., preparing plans for 2 story, 125 x 150 ft., brick, steel and terra cotta, concrete foundation. About $200,000. Owners name withheld.

Ill., Chicago—Temple—Temple Judea, c/o Ludgin & Leviton, archts., 53 West Jackson St., having plans prepared for 1 story, 90 x 105 ft., brick, stone and steel, concrete foundation, on Independence Blvd. and Roosevelt Rd. About $200,000.

Ill., Chicago—Theatre—Cohen & Harris, 226 West 42nd St., New York City, having preliminary plans prepared by A. N. Rebori, archt., 410 South Michigan Ave., for 1 story, 100 x 135 ft., steel and tile, at 121 North Clark St., here. About $400,000. Noted June 17.

Ill., Waukegan — Store and Office — Shepherd & Memmler, archts., 1035 36th St., Milwaukee, Wis., opens bids in spring, building 3 story, 25 x 110 ft., brick, concrete foundation, for N. Conrad. About $75,000.

Wis., Clintonville — Hotel — Chamber of Commerce had preliminary plans prepared by Brown & Snook, archts., Neenah, for 3 story, 92 x 100 ft., brick, rein.-con. and tile. About $150,000. R. Fisher, secy.

Wis., Drummond—Bank—See "Miscellaneous."

Wis., Shorewood (Milwaukee P. O.)—High School—School Bd. having plans prepared by R. A. Messmer & Bro., archts. and engrs., Majestic Bldg., Milwaukee, for 2 story, concrete and brick addition, rein.-con. flooring, concrete foundation, on Atwater St. About $75,000. Noted Sept. 30.

Ia., Council Bluffs—Hospital—Women's Christian Assn. having plans prpared by J. C. Jensen, archt., 305 West Bway., for 3 story, rein.-con. and brick addition to Jennie Edmundson Hospital. About $350,000. E. Lucas, chn.

Ia., Mason City—Hospital—North Iowa Lutheran Hospital Assn. plans to build 4 story, rein.-con. and brick addition, on 3rd St. and Georgia Ave. N. E. About $300,000. R. Vordale, secy. Architect not announced.

Minn., Aitkin—Court House—Bd. Comrs Aitkin Co. plans to build rein.-con. and brick here. About $250,000. Architect not selected.

Minn., Cohasset—School—Bd. Educ., c/o H. J. Snyder, clk., plans to build 2 story, rein.-con. and brick. About $75,000.

Minn., Hackensack—School—Bd. Educ., c/o R. F. Ross, clk., rejected bids received Oct. 15, building 2 story, 95 x 102 ft. rein.-con. and brick. Noted Oct. 28.

Buildings (Continued)

Kan., Kansas City—Hotel—Uhls & Holsbeck soon receive bids remodeling present building and constructing 3 story, 150 x 150 ft. addition, rein.-con., steel and brick, rein.-con. flooring, on 6th and Ann Sts. About $600,000. Hoit, Price & Barnes, 607 Reliance Bldg., Kansas City, Mo., archts. Noted Oct. 7.

Kan., Pittsburg—Memorial—City plans to build memorial hall. About $250,000. Architect not selected.

N. D., Grand Forks — College — Wesley College plans to build memorial hall, chapel, service halls and residence. About $750,000.

Mont., Butte—School—School Dist. 1, Silver Bow Co., election Nov. 13, to vote on $525,000 bonds to build school.

Cal., Long Beach—Theatre and Office—Lineberger, Hite & Lineberger having plans prepared by Walker & Eisen, archts., 1403 Hibernian Bldg., Los Angeles, for 3 story, 50 x 150 ft., rein.-con. and steel, tile and cement flooring, on American Ave. About $110,000.

Cal., San Francisco — Office — Hobart Estate, Merchants Exch. Bldg., had preliminary plans prepared by Willis-Polk & Co., archts., Hobart Bldg., for extending Hobart Bldg. through to Sutter St., and building 22 story tower. E. J. McCutcheon, mgr.

Cal., San Francisco—Store and Loft—J. Fitzhugh, Mills Bldg., had plans prepared by Reid Bros., archts., California-Pacific Bldg., for 3 story, terra cotta, on Post St. near Stockton St. About $100,000.

Que., Montreal—Church—Syrien Roman Catholic congregation c/o P. Nasre, 434 Laganchetiere St., receives bids in December, building 3 story, 50 x 75 ft. concrete, brick and steel, concrete foundation, on Laganchetiere St., E. About $125,000. W. P. Dufort, 195 St. Catharine St., E., archt.

Ont., Hamilton—School—R. H. Foster, secy. treas. Bd. Educ., receives bids about Nov. 11, building 2 story, 8 room, concrete, brick and tile, rein.-con. flooring, concrete foundation. About $125,000. W. G. Brown, Provident Loan Bldg., archt.

Ont., London—E. T. Jenkins, Y. M. C. A., 429 Wellington St., plans to build brick and steel, rein.-con. flooring, concrete foundation. About $300,000. Architect not selected.

BIDS DESIRED

★**Mass., Holyoke** — Church — Perpetual Help Roman Catholic Church, 51 Fountain St., receiving bids building 1 story, 70 x 185 ft. brick and steel, concrete foundation, on Chestnut and Elm Sts. About $150,000. L. J. Carone, Nicolet, Quebec, Can., archt.

Conn., Thompsonville — School — Until Nov. 9, by Town of Enfield, building 2 story, concrete, brick and steel, rein.-con. flooring, concrete foundation, on North Main St. About $130,000. I. A. Allen, Jr., Inc., 904 Main St., Hartford, archt.

Pa., Bethlehem—Schools—Until Nov. 10, by Bd. Educ., for carpentry and plastering work on 2 story, 176 x 185 ft., on Union and 8th Sts., also 3 story, 170 x 255 ft., on 4th and Pierce Sts. Total cost $450,000 and $400,000 respectively. V. T. Ritter, North Amer. Bldg. Phila., archt.

O., Cuyahoga Falls—Exchange — Central Union Telephone Co., receiving bids building 2 story, rein.-con., brick and steel, rein.-con. flooring, brick and concrete foundation. About $100,000. A. P. Dippold, 4747 Cottage Grove Ave., Chicago, archt.

Ind., Gary—Store—J. M. LeVee, archt., Gary, receiving bids building 3 story, 50 x 175 ft., brick and stone. About $100,000. Owner's name withheld.

Minn., Duluth—Church—Until Nov. 20, by H. Olson, chn. bldg. com., constructing 2 story, 75 x 135 ft. rein.-con., brick and steel, rein.-con. flooring, and foundation, on 2nd St. between 26th and 27th Ave. W., for 2nd Presbyterian Church. About $125,000. Holstead & Sullivan, 410 Palladio Bldg., archts.

Minn., Hibbing—Temple—Until Jan. 2, by Trustees of Hibbing Masonic Lodge, building 2 story, 75 x 120 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Howard St. and 4th Ave. About $135,000. Architect to be selected at once.

Minn., Long Prairie—School—Until Nov. 11, by Independent School Dist. 11, building 2 story, 75 x 160 ft. rein.-con., brick and stone. About $200,000. W. M. Barber, secy. C. H. Parsons, 600 Builders Exch., Minneapolis, archt.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Dorchester**—Convent—St. Gregorys Roman Catholic Church, 2221 Dorchester Ave., let contract building 3 story, 52 x 70 ft. brick and steel, concrete foundation, to J. M. Dolan, 197 Sidney St., Cambridge. About $75,000.

★**Mass., Jamaica Plains** (Boston P. O.) —Theatre—H. Eilenberg, 37 Tremont St., will build 1 story, 84 x 120 ft. concrete, brick and steel, rein.-con. flooring, concrete foundation, on Center St. About $125,000. Work will be done by day labor. Noted Sept. 16.

★**Mass., Westfield** — Church — St. Joseph Polish Natl. Catholic Society, 61 Washington St., let contract building 1 and 2 story, concrete, brick and steel, concrete foundation, on Main St. and Clinton Ave., to M. Fillipow, Main St. and Clinton Ave. About $75,000. Noted Oct. 21.

★**Conn., Waterbury**—Store and Office—J. H. Cassidy, 144 Bank St., let contract building 1 story, concrete, brick and steel, rein.-con. flooring, concrete foundation, on West Main and Willow Sts., to Tracy Bros. Co., 52 Benedict St. About $75,000.

★**N. Y., Eastview** — Hospital — Bd. Supervs. Westchester Co., White Plains, let contract altering brick and stone, here, to F. N. Goble, 299 Madison Ave., New York City. About $75,000.

★**N. Y., New York**—Loft—Herald Square Bldg. Co., c/o Schwartz & Gross, archts. and engrs., 347 5th Ave., will build 8 story, 100 x 100 ft., brick, steel and stone, concrete foundation, on West 37th St. Work will be done by day labor under supervision of architect.

★**Pa., Bethlehem**—Schools—Br. Educ. let contract for excavation, steel and exterior work on 2 story, 176 x 185 ft., on Union and 8th Sts., to F. J. Groman, West and North High Sts.; 3 story, 170 x 255 ft., on 4th and Pierce Sts., to F. F. Speck, Cunow St. Total costs $450,000 and $400,000 respectively. See item under "Bids Desired."

★**Md., Baltimore** — Office — United States Fidelity & Guaranty Co., Calvert and Redwood Sts., let contract building 3 story (ultimately 12 story) brick and steel, stone foundation, on Calvert and Mercer Sts., to G. Dose Eng. Co., 43 West 27th St., New York City. About $500,000. Noted Oct. 7.

Md., Baltimore—Schools—Bd. Educ. received bids building P. S. 76, concrete, brick and steel, concrete foundation, on Fort Ave. and Latrobe Pk., from Standard Constr. Co., 1713 Sansom St., Phila., $485,000; P. S. 64, brick and stone, concrete foundation, on Garrison and Penhurst Aves., from C. L. Stockhausen Co., Gay and Water Sts., $92,885. Noted July 29.

★**Md., Baltimore** — Theatre — Douglas Amusement Co., c/o Lachman & Murphy, archts., Drexel Bldg., Phila., will build 1 story, brick, concrete and steel, at 1317-25 Pennsylvania Ave. Work will be done by day labor under supervision of architects. Noted Sept. 16.

★**N. C., Greensboro**—Theatre and Stores —Natl. Amusement Corp. let contract building 4 story, 80 x 144 ft. concrete, brick and steel, on South Elm St., to L. B. Flora & Son, East Paxton St., Danville, Va. About $125,000; cost plus percentage basis. Noted May 27.

★**O., Cleveland**—Bank and Office—State Bankng & Trust Co., West 65th St. and Detroit Ave., let contract building 2 story, 40 x 100 ft., brick and steel, brick foundation, at 419 Eagle Ave., to Drummond-Miller Co., 4500 Euclid Ave. About $125,000.

O., Cleveland Heights (Warrensville P. O.)—Schools—Bd. Educ. received bids Oct. 20, building 4 story, 45 x 90 ft., rein.-con., brick and steel addition, rein.-con. flooring, brick and concrete foundation on Coventry Rd., from Drummond-Miller Co., 4500 Euclid Ave., Cleveland, $206,760; Alexander Bros., Williamson Bldg., Cleveland, $209,757; P. Kirschner, Hippodrome Bldg., Cleveland, $213,931; two 2 story, 35 x 70 ft. additions, rein.-con., brick and steel, rein.-con. flooring, brick and concrete foundation, on Fairfax Rd., from Moore-Lamb Constr. Co., 203 Stambaugh Bldg., Youngstown, $135,000; J. A. Moffatt Co., 1836 Euclid Ave., Cleveland, $137,900, Willing Bros., Bellevue, $142,472. Noted Oct. 7.

O., Elyria—School—Bd. Educ. received bids Oct. 18, building 2 story, 98 x 201 ft., rein.-con., brick and steel, rein.-con. flooring, brick and concrete foundation, on Gulf Rd. and Ohio St., from Drummond-Miller Co., 4500 Euclid Ave., Clevelad, $274,600; J. Kaiser & Son, Elyria, $287,000; G. Kratt, Lorain, $297,000. Noted Oct. 7.

★**Mich., Ecorse**—School—Bd. Educ., Dist. 5, let contract building 2 story, 86 x 90 ft. rein.-con. and brick, rein.-con. flooring, concrete foundation, on Fort St. and Pepper Rd., to Patterson Constr. Co., 907 Ford Bldg., Detroit. About $100,000.

★**Wis., Manitowoc** — Theatre — W. J. Raeuber, archt., Teitgen Bldg., let contract to Badger State Constr. Co., Manitowoc, building 4 story, 87 x 115 ft., concrete, brick and steel, for George Bros., 913 South 8th St. About $125,000. Noted May 6.

★**Kan., Parsons**—High School—Bd. Educ. let contract building 3 story, 40 x 100 ft. concrete, steel and brick, rein.-con. flooring, rock and concrete foundation, at 1328 Bway., to Widmer & Prince, Parsons, $172,219. Noted July 8.

★**Mo., Clayton**—Gymnasium—Chaminade College let contract building 2 story, 103 x 164 ft., brick and concrete, rock foundation, on Denny Rd., to Grewe Constr. Co., Century Bldg., St. Louis. About $75,000.

★**Tex., Denison** — Hospital — Missouri, Kansas & Texas Ry. Employees Assn. let contract building 3 story, brick, to Munn Constr. Co., Denison. About $300,000.

★**Que., Rock Island**—Office—Butterfield & Co., Inc., Derby Line, Vt., let contract building 2 story, 40 x 103 ft. brick, concrete foundation, here, to J. J. Power, 15 Ashland St., Worcester, Mass. About $125,000.

Federal Government Work

PROPOSED WORK

R. I., Providence—Dredging—Major T. M. T. Robins, ch. engr., rejected bids received Oct. 11, dredging Thames River, Conn. Work will be readvertised in January. Noted Oct. 21.

N. J., Cape May—Radio Compass Building—Spec. 4325—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to construct, here.

Md., Annapolis—Repainting Structure—Spec. 4329—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to repaint structure, here.

D. C., Wash.—Reciprocating Air Compressor—Spec. 4327—Bureau Yards & Docks, Navy Dept., plans to install at Bellevue, here.

D. C., Wash.—Turbo Generator and Switchboard—Spec. 4317—Bureau Yards & Docks, Navy Dept., plans to install turbo generator and switchboard equipment, here.

Va., Hog Island—Radio Compass Building—Spec. 4324—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to construct, here.

Va., Virginia Beach—Radio Compass House—Spec. 4321—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build, here.

N. C., Cape Hatteras—Radio Compass Building—Spec. 4323—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to construct here.

N. C., Cape Lookout—Radio Compass Building—Spec. 4320—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to construct, here.

N. C., Poyners Hill—Radio Compass Building—Spec. 4322—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to construct, here.

Fla., St. Petersburg—Dormitory—Spec. 4319—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to construct here.

Tex., Port Arthur—Radio Building and Tower—Spec. 4328—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build, here.

Wash., Puget Sound—Electric Traveling Crane—Spec. 4326—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build electric traveling crane, here.

Cal., San Diego—Hospital Buildings—Spec. 4300—Bureau Yards & Docks, Navy Dept., Wash., D. C., received no bids Oct. 27, constructing, at Naval Base, here. Noted Oct. 21.

Cal., San Diego—Marine Railway—Spec. 4297—Bureau Yards & Docks, Navy Dept., Wash., D. C., received no bids Oct. 27, relocating and completing marine railway, at Naval Base, here. Noted Oct. 7.

H. T., Kushua—Shell House—Spec. 4318—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build, at Naval Air Depot, here. About $50,000.

Federal Government Work (Continued)

BIDS DESIRED

Mass., Chelsea—Alterations and Additions to Main Buildings, etc.—Spec. 4273—Until Nov. 17, by Bureau Yards & Docks, Navy Dept., Wash., D. C., altering and constructing addition to main building and constructing addition to heating plant, here. Noted Sept. 2.

N. Y., New York — Electric Traveling Bridge Crane—Spec. 4250—Until Nov. 3, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building electric traveling bridge crane for bulkhead handling ways No. 1 and for steel storage.

Pa., Allentown—Mezzanine Floors, etc.—Until Nov. 16, by Treas. Dept., at office of J. A. Wetmore, superv. archt., Wash. D. C., building in U. S. Post Office, here; advertised in this issue.

Tex., Galveston — Redredging — Until Nov. 24, at U. S. Engineers' Office, redredging Galveston Channel; advertised in this issue.

Wash., Puget Sound—Nurses Quarters—Spec. 4293—Until Nov. 3, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building, here.

Cal., San Diego—Quartermaster's Storehouse—Spec. 4280—Until Nov. 24, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building at Marine Base, here; $10 deposit required for plans and spec. Noted Sept. 16.

H. T., Kuahua—Ordnance Buildings—Spec. 4168—Until Dec. 1, by Bureau Yards & Docks, Navy Dept., Wash., D. C., constructing 5 ordnance buildings, at Pearl Harbor, here; $10 deposit required for plans and spec. Noted April 15.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mass., Chelsea—Macadam Road, etc.—Spec. 4284—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids building macadam roads, walks, etc., here, (1) work complete, from M. Serreto, 3 Fremont Row, Boston, (1) $38,000 (75 days); Coleman Bros., 49 Medford St., Charlestown Dist., Boston, (1) $47,000 (150 days), (2) $3,500; Hyde & Baxter, 1311 G St., N. W., Wash., D. C., (1) $53,280 (210 days), (2) $1,600. Noted Oct. 21.

R. I., Providence—Dredging—U. S. Engineer received bids Oct. 25, dredging, (1) 321,000 cu.yd. in Stamford Harbor, (2) 11,000 cu.yd. Norwalk Harbor, (a) both works as whole, (b) 2 works separately, from J. S. Packard Dredging Co., 1004 Turks Head Bldg., (1a) $0.32¼ (1b) $0.32¼, (2a) $0.32¼; F. E. Jones, 1002 Bank of Commerce Bldg., Norfolk, Va., (1a) $0.41, (2a) $0.41; Columbia Dredging Corp., 30 Church St., New York City, (1a) $.33, (2a) $0.33; Bridgeport Dredge & Dock Co., 1024 Main St., Bridgeport, Conn., (1a) $0.387, (2a) $0.387; P. S. Ross, 277 Washington Ave., Jersey City, N. J., (1b) $0.52. Noted Oct. 7.

N. Y., Brooklyn—Concrete Roads, etc.—Spec. 4310—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Oct. 27, building concrete roads and sidewalks, at Naval Hospital, here, (1) work complete, from E. F. Monahan, 195 Hastings St., Manhattan Beach, (1) $27,187 (60 days), (2) $5.75. Noted Oct. 21.

N. Y., Buffalo—Remodeling and Repairing Custom House and Post Office—Treas. Dept., Wash., D. C., received bids Oct. 26, remodeling, here, from Franco-Amer. Constr. Co., Inc., 15 West 91st St., New York City, $168,400; D. Gordon Bldg. & Constr. Co., Burnett and Northern Aves., Avon, O., cost plus 10% profit; Savage Constr. Co., Buffalo, $220,000. Noted Sept. 30.

★N. Y., New York—Turret Foundation—Spec. 4295—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building at Navy Yard, here, to Phoenix Constr. Co., 11 Park Row, New York City, $17,897, (30 days). Noted Oct. 28.

D. C., Wash.—Grading—Treas. Dept. received bids Oct. 25, grading at U. S. Public Health Sanatorium, Mt. Alto, here, (1) earth, (2) rock excav., from W. F. Brenizer Co., 101 New York Ave., N. E., (1) $0.70 per cu.yd., (2) $5 cu.yd., (30 days); Corson & Gruman Co., 61 Rhode Island Ave., N. E., (1) $1.10, (2) $2, (30 days). Noted Oct. 21.

La., New Orleans—Mine Storage Building—Spec. 4253—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Oct. 20, constructing mine storage building and shell house, at Naval Station, here, (1) work complete, from D. F. Brandon, 806 James Bldg., Chattanooga, Tenn., (1) $57,984 (180 days), (2) $38,993, (3) $18,991, (4) $2,966 (10 days), (5) $2,061 (5 days); J. Reiss, 503 Hibernia St., (1) $63,000 (180 days), (2) $42,420, (3) $21,810; Hyde & Baxter, 1311 G St., N. W., Wash., D. C., (1) $58,780 (180 days), (2) $39,445, (3) $21,535, (4) $4,200. Noted Sept. 30.

California—Road Work—U. S. Dept. of Agriculture, 886 Mills Bldg., San Francisco, received bids improving 8.7 mi. roads in Klamath Natl. Forest, Job 24, from Willett & Burr, 512 Mission St., San Francisco, $150,117; M. J. Blake, Orleans, $167,092; Mooline & Reedy, Medford, Ore., $198,544.

Cal., San Diego—Dredging—Spec. 4287—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bid dredging and filling about 3,200,000 cu.yd., at Naval Base, Marine Barracks and Training Station, here, (1) work complete, from United Dredging Co., Woolworth Bldg., New York City, (1) $0.2021, (2) $0.20, (3) 0.239 (time specified). Noted Sept. 23.

Cal., San Diego—Dredging—Spec. 4287—Pub. Wks. Officer received bid dredging and filling 2,700,000 cu.yd., at Naval Base Barracks and Training Station, (1) work complete, from San Francisco Bridge Co., Nevada Bank Bldg., San Francisco, (1) $0.347, (2) $0.347, (3) $0.358, alternate, (1) $0.293, (2) $0.293, (3) $0.307. Noted Sept. 23.

Cal., San Diego—Fire Alarm System—Spec. 4288—Pub. Wks. Officer received bids Oct. 21, building fire alarm system (1) work complete, from Globe Electric Co., Timken Bldg., (2) $18,900, (120 days). Noted Oct. 7 and 28.

Miscellaneous

PROPOSED WORK

Bitumen—New York, N. Y.—Bd. Purchase, Municipal Bldg., received no bids Oct. 25, furnishing and delivering bitumen asphalt cement. Project will be readvertised. Noted Oct. 21.

Park—Wilkes Barre, Pa.—City plans to improve Kirby Park. About $250,000. F. H. Gates, clk.

Park, Cleveland, O.—Metropolitan Park Bd., c/o M. H. Farnsworth, Old Court House, plans to build park on 500 acre site, in Brecksville Twp. About $500,000. W. A. Stinchcomb, Court House, engr.

Storage and Mixing House and Craneway—Dayton, O. — Gartland-Haswell-Rentschler, Keowee St., plans to build rein.-con. storage and mixing house and rein.-con. craneway with elevated storage floors for coke and iron, span of craneway 60 ft., 43 ft. high. About $20,000. F. H. Smith, Dayton, engr.

Automobiles and Wagons, etc.—Youngstown, O.—City plans to purchase several automobiles, wagons and like equipment, for collecting garbage. About $80,000. G. F. Turner, City Hall, engr.

Incinerators—Youngstown, O.—City plans to erect or enlarge present system, including installation of 2 and possibly 4 incinerators, and accompanying equipment. About $750,000. G. F. Turner, City Hall, engr.

Signal and Call System—East Youngstown, O.—Village plans election to vote on $15,000 bonds to install signal and call service system for Police Dept. A. Julius, clk.

Retaining Wall—Ottawa, Ill.—City opens bids in spring building South Bluff retaining wall. About $18,000.

Tract Development — Drummond, Wis. — Rusk-Owen Lumber Co. plans to develop tract, to include sewerage system, sewage disposal plant, public garage and several small dwellings. About $100,000. E. E. Gilchrist, secy. G. L. Nason, 641 Endicott Bldg., St. Paul, Minn., archt.

Fairground, etc.—Sedalia, Mo.—City having plans prepared constructing fairground and buildings, to include rearranging race track, cutting same from 1 mi. to ⅝ mi., moving race horse barns, erecting concrete stand to seat 20,000 people, remodeling old stand into merchants and manufacturing building, constructing brick and steel administration building, brick and steel swine pavilion and several other smaller buildings, etc. About $1,000,000. Holcomb Eng. Co., Tulsa, Okla., engrs.

Market—Quebec, Que.—City soon receives bids building new market on St. John St. About $75,000.

BIDS DESIRED

Laundry Equipment—Hudson, N. Y.—Until Nov. 17, by A. W. Allen, pres. Bd. Mgrs., New York State Training School for Girls, furnishing laundry equipment; advertised in this issue.

Refrigerating Apparatus—Sonyea, N. Y.—Until Nov. 9, by P. L. Lang, pres. Bd. Mgrs., Craig Colony for Epileptics, furnishing refrigerating apparatus for dining room and kitchen building. L. F. Pilcher, capitol, Albany, state archt.; advertised in this issue.

Pump, etc.—Albany, Wis.—Until Nov. 2, by city, for 1 centrifugal pump, motor and controlling apparatus for waterworks plant, pump with 160 gal. per minute capacity against total head of 165 ft. W. G. Kaiser, 31 Vroman Blk., Madison, engr.

Arena—Toronto, Ont.—Until Nov. 16, by Bd. Control, building 1 story, 200 x 600 ft., brick and steel, concrete flooring and foundation, on exhibition grounds. About $1,500,000. W. Price, city archt.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Plumbing, etc.—Brooklyn, N. Y.—Bd. Educ., 500 Park Ave., New York City, received bids Oct. 27, installing plumbing and drainage in P. S. 181, here, from Wells & Newton Co., Ave. B and 17th St., New York City, $60,600, J. J. Kenney, 226 West 20th St., New York City, $61,500, J. A. Graf, 394 Waverley Ave., $67,867; electric equipment in same, from Croker Co., 1270 Bway., New York City, $46,992, E. E. Jandous Co., 109 West 31st St., New York City, $47,690, T. F. Jackson, 99 John St., New York City, $48,200.

★Car Barns—New York, N. Y.—West 129th St. Bldg. Co., 335 Wadsworth Ave., will alter 1 story, 150 x 200 ft. car barns, brick and steel, on 129th St. and Amsterdam Ave. About $75,000. Work will be done by day labor

Heating System—New York, N. Y.—Dept. Pub. Wks., Capitol, Albany, received bids installing heating system in Barge Canal Terminal Headhouse, on Pier 93, West 53rd St., here, (Contr. 225-H), from Austin Eng. Corp., 121 West 42nd St., $4,875.

★Tractors—New York, N. Y.—Bd. Purchase, Municipal Bldg., let contract furnishing and delivering 50 gasoline motor driven track laying tractors, to Holt Mfg. Co., 50 Church St., $212,500. Noted Oct. 7.

★Boilers—West New Brighton, S. I., N. Y.—Dept. Pub. Welfare, Municipal Bldg., New York City, let contract installing boilers in proposed addition to boiler house, at Sea View Hospital, here, to Almirall & Co., Inc., 1 Dominick St., New York City, $79,789. Noted Oct. 21, under "Industrial Works."

★Coal Bunkers—Pittsburgh, Pa.—Mercy Hospital, Stevenson and Locust Sts., let contract building 20 x 65 ft. rein.-con. coal bunkers, to include coal slides, manholes, etc., to D. T. Riffle, Keenan Bldg. About $20,000.

★Cable—Cleveland, O.—City let contract furnishing 48,197 ft. underground lead cable, to Safety Insulated Wire & Cable Co., 700 West Jackson Blvd., Chicago, Ill., $20,052.

★Pipe and Castings—Cleveland, O.—City let contract furnishing c. i. pipe and castings, to Natl. Cast Iron Pipe Co., Cleveland, $38,692.

★Foundation, etc.—Ft. Wayne, Ind.—Bd. School Comrs. let contract building foundation for 3 story, 211 x 230 ft., rein.-con. and brick high school, on Calhoun St., to Buesching & Hagerman Co., 402 East Superior St., $59,896; plumbing, heating and wiring for foundation, to P. B. Arnold Co., 213 East Main St., $11,059; cut granite base, to J. D. Sargent Granite Co., Mt. Airy, N. C., $12,800.

★Dam, etc.—International Falls, Minn.—Minnesota & Ontario Paper Co. let contract building rein.-con. dam and brick pumphouse, on Rainy River to C. F. Haglin & Sons Co., 226 Lumber Exch., Minneapolis. About $500,000.

★Foundation—Madison, Wis.—University of Wisconsin let contract building concrete foundation for rein.-con. and brick, hospital, on University Ave., to L. B. Gilbert, 23 North Pinckney St., $21,457. Noted Oct. 21, under "Buildings."

★Undergrade Railroad Crossing—Dallas, Tex.—City let contract building undergrade railroad crossing at Maple Ave. and Fairmount St., over Missouri, Kansas & Texas R.R., here, to Vilbig Bros., 1709 Jackson St., and Klein Bros. Co., Junius and Walton Sts., $157,417. Work includes lowering property, moving 12 houses, building driveway, sidewalks, stairs, curbs, gutters, etc., and involves 49,450 cu.yd. earth and 967 cu.yd. rock excav., 86,500 lb. rinforcing steel, 14,295 sq.ft. sidewalk, 9,175 sq.ft. driveway, 2,560 lin.ft. combined curb and gutter, 1,500 sq.yd. gravel macadam pavement, 465 cu.yd. Class "A" and "B" and 355 cu.yd. Class "C" concrete, etc.